PENDING PETITION MEMO

Date: 9/21/2007

TO : Office of Telecommunications

FROM: CENTRAL OPERATIONS

UTILITY: TIME WARNER CABLE

SUBJECT: 05-V-0708

Petition of Time Warner Entertainment - Advancce/Newhouse Partnership for Renewal of its Franchise with the Village of Weedsport, Cayuga County.

05 - V - 0703

2007 SEP 21 AM 11: 12

TIME WARNER CABLE

August 28, 2007

VIA CERTIFIED MAIL/
RETURN RECEIPT REQUESTED
Secretary Jaclyn Brilling
N.Y.S. Department of Public Service
Three Empire State Plaza - 19th Floor
Albany, New York 12223

Re: Franchise Renewal Application

Dear Ms. Brilling:

Enclosed please find an original and 4 (four) copies of the application for renewal of the cable television franchise agreement between Time Warner Entertainment – Advance/Newhouse Partnership and the Village of Weedsport (Cayuga County).

If you have any questions, please do not hesitate to contact me at (315) 634-6107.

Sincerely,

Thomas P. Doheny
Manager of Government Reporting

Enclosures

6005 Fair Lakes Road East Syracuse NY 13057 • PO Box 4733 Syracuse NY 13221 [illegible]

CABLE TELEVISION
FRANCHISE RENEWAL AGREEMENT

VILLAGE OF WEEDSPORT

THIS AGREEMENT, executed in triplicate this 23 day of May, 2007, by and between the **VILLAGE OF WEEDSPORT**, (hereinafter referred to as the Municipality) by the Mayor acting in accordance with the authority of the duly empowered local governing body, (hereinafter referred to as the Board) and **TIME WARNER ENTERTAINMENT-ADVANCE/NEWHOUSE PARTNERSHIP**, a New York General Partnership, organized and existing under the laws of the State of New York, the local place of business of which is located at 6005 Fair Lakes Road, P.O. Box 4733, East Syracuse, NY 13221, hereinafter referred to as "Franchisee."

WITNESSETH

WHEREAS, Pursuant to the Village Law the Board has the exclusive power on behalf of the Municipality to grant franchises providing for or involving the use of the Streets (as defined in Section 1 hereof) and to give the consent of the Municipality to any franchisee for or relating to the occupation of the Streets; and

WHEREAS, Pursuant to the Communications Act of 1934, as amended, (the "Communications Act") the Board has the authority to grant cable television franchises and renewals thereof on behalf of the Municipality and whereas the Board and Franchisee pursuant to said Federal Law and pursuant to applicable State laws and the regulations promulgated thereunder, have complied with the franchise procedures required of Municipalities and cable operators in the grant of cable television franchises or their renewal; and

WHEREAS, The Municipality has conducted negotiations with Franchisee and has conducted one or more public hearings on Franchisee's franchise renewal proposal affording all interested parties due process including notice and the opportunity to be heard; said deliberations included consideration and approval of Franchisee's technical ability, financial condition and character; said public hearing also included consideration and approval of Franchisee's plans for constructing and operating the cable television system; and

WHEREAS, Following such public hearings and such further opportunity for review, negotiations and other actions as the Board deemed necessary and that is required by law, the Board decided to renew Franchisee's franchise as provided hereinafter; and

WHEREAS, The Board, in granting this franchise renewal, embodied in the agreement the results of its review and any negotiations with Franchisee and has determined that said franchise agreement and Franchisee respectively, fulfills and will fulfill the needs of the Municipality with respect to cable television service and complies with the standards and requirements of the New York State Public Service Commission ("NYSPSC");

NOW, THEREFORE, In consideration of the foregoing clauses, which clauses are hereby made a part of this franchise agreement, and the mutual covenants and agreements herein contained, the parties hereby covenant and agree:

SECTION 1 - DEFINED TERMS

Unless the context clearly indicates that a different meaning is intended:

(a) "Basic Service" means any service tier which includes the retransmission of local broadcast signals.

(b) "Board" means the Board of Trustees of the Municipality.

(c) "Cable Television Service" means

(1) The one way transmission to Subscribers of Video Programming, or other programming service, and

(2) Subscriber interaction, if any, which is required for the selection or use of such Video Programming, or other programming service.

(d) "Cable Television System" means a facility, consisting of a set of closed transmission paths, including (without limitation) fiber optic wires or lines, and associated signal generation, reception and control equipment that provides Cable Television Service to multiple subscribers within a community.

(e) "Franchisee" means Time Warner Entertainment-Advance/Newhouse Partnership.

(f) "Effective Date" of this agreement shall be that date subsequent to confirmation of the Franchise, by the New York State Public Service Commission ("NYSPSC") agreed to by the parties, which date is (calendar date).

(g) "Franchise" means the grant or authority given hereunder to Franchisee to construct and operate a Cable Television System in the Municipality in accordance with the terms hereof.

(h) "FCC" means the Federal Communications Commission, its designees and any successor thereto.

(i) "Gross Revenues" means all revenues, actually received by and paid to Franchisee by subscribers residing within the Municipality for Cable Television Service purchased by subscribers on a regular, recurring monthly basis. Gross Revenues shall not include (1) excise taxes; or (2) sales taxes; or (3) bad debt or late fees; or any other taxes or fees, which are imposed on Time Warner Cable or any subscriber or government unit and collected by Time Warner Cable for such governmental unit.

(j) "May" is permissive.

(k) "Municipality "means the Village of Weedsport. Wherever the context shall permit, Board, Council and Municipality shall be used interchangeably and shall have the same meaning under this Franchise.

(l) "NYSPSC" means New York State Public Service Commission.

(m) "Person" means an individual, partnership, association, corporation, joint stock company trust, corporation, or organization of any kind.

(n) "Service Tier" means a category of Cable Television Service provided by Franchisee over the Cable Television System for which a separate rate is charged for such category by Franchisee.

(o) "Shall" or "will" are mandatory.

(p) "Streets" means the surface of, as well as the space above and below, any and all streets, avenues, highways, boulevards, concourses, driveways, bridges, tunnels, parks, parkways, waterways, docks and public grounds and waters within or belonging to the Municipality.

(q) "Subscriber" means any person lawfully receiving any Cable Television Service in the Municipality provided over the Cable Television System.

(r) "Video Programming" means any and all programming services provided by, or generally considered comparable to programming provided by a television broadcast station.

SECTION 2 - CONSENT TO FRANCHISE AND CONDITION PRECEDENT

(a) The Municipality hereby grants to Franchisee the non-exclusive right to construct, erect, operate and maintain a Cable Television System and to provide Cable Television Service within the Municipality as it now exists and may hereafter be changed, and in so doing to use the Streets of the Municipality by erecting, installing, constructing, repairing, replacing, reconstructing, maintaining and retaining in, on, over, under, upon and across any and all said Streets such facilities (e.g., poles, wires, cables, conductors, ducts, conduits, vaults, pedestals, manholes, amplifiers, appliances, attachments and other property) as is deemed necessary or useful by Franchisee, for the operation of its cable system. Additionally, the Municipality, insofar as it may have the authority to so grant, hereby authorizes Franchisee to use any and all easements dedicated to compatible uses, such as electric, gas, telephone or other utility transmissions, for the purposes of erecting, installing, constructing, repairing, replacing, reconstructing, maintaining and retaining in, on, over, under, upon and across such easements such facilities of the Cable Television System as is deemed necessary or useful by Franchisee, for the operation of its cable system. Upon request by Franchisee and at Franchisee's sole expense, the Municipality hereby agrees to assist Franchisee in gaining access to and using such easements.

(b) Nothing in this Franchise shall limit the right of Franchisee to transmit any kind of signal, frequency, or provide any type of service now in existence or which may come into existence and which is capable of being lawfully transmitted and distributed by those facilities owned and operated by Franchisee. The provision by Franchisee of any service other than cable service shall be subject to all applicable laws and regulations and to any right the Municipality may have to

require fair and reasonable compensation for Franchisee's use of the rights-of-way to provide such service, provided that such requirement is non-discriminatory and competitively neutral.

(c) Without waiver or restriction of the rights available to the parties hereto under applicable law, this Franchise and the attachments hereto constitute the entire agreement between the parties and supersede any and all prior cable television agreements and other agreements or instruments by or between the parties hereto or their predecessors in interest as well as all rights, obligations and liabilities arising thereunder concerning or in any way relating to Cable Television Service.

(d) In the event the Municipality grants to any other Person (being referred to as "Grantee" in the below quoted paragraph) a franchise, consent or other right to occupy or use the Streets, or any part thereof, for the construction, operation or maintenance of all or part of a cable television system or any similar system or technology, the Municipality shall insert the following language into any such franchise, consent or other document and/or promptly pass a resolution, conditioning the use of the Streets or any part thereof by any such Person, as follows:

> "Grantee agrees that it will not move, damage, penetrate, replace or interrupt any portion of the Cable Television System of Franchisee without the prior written consent of Franchisee. Grantee shall indemnify Franchisee against any damages or expenses incurred by Franchisee as a result of any removal, damage, penetration, replacement or interruption of the services of Franchisee caused by the Grantee." As used immediately above in the above quoted paragraph, the term "Franchisee" shall mean Franchisee Entertainment-Advance/Newhouse Partnership, as defined in this Franchise, and its successors, assigns and transferees.

(e) This Franchise is non-exclusive. No municipality may award or renew a franchise for cable television service which contains economic or regulatory burdens which when taken as a whole are greater or lesser than those placed upon another cable television franchise operating in the same franchise area."

As used in this Section, the phrase, "occupancy or use of Streets," or any similar phrase, shall not be limited to the physical occupancy or use thereof but shall include any use above or below the Streets by any technology including but not limited to infrared transmissions.

SECTION 3 - APPROVAL OF COMPANY BY MUNICIPALITY

(a) This Franchise is subject to and complies with all applicable Federal and State laws and regulations, including, without limitation, the rules of the NYSPSC concerning franchise standards. The Municipality hereby acknowledges and agrees that this Franchise has been entered into by it in accordance with and pursuant to the Communications Act of 1934, as amended, 47 U.S.C. Sec. 521 et seq. (hereinafter referred to as the "Communications Act"). The Municipality

hereby represents and warrants that this Franchise has been duly entered into in accordance with all applicable local laws. The Municipality hereby acknowledges that it, by duly authorized members thereof, has met with Franchisee for the purposes of evaluating Time Warner Cable and negotiating and consummating this Franchise.

(b) In a full and public proceeding, affording due process, the Municipality has considered and approved Franchisee's technical ability and character and has considered and found adequate Franchisee's plans for constructing and operating the cable system.

(c) Review of Franchisee's Performance. At any time during the Franchise term, at the request of the Village or the Company, the Village and the Company shall participate in a review of the Company's operations hereunder. Any changes in this franchise suggested, as a result of this review shall only be effected by mutual consent.

SECTION 4 - FRANCHISE TERM

The term of this Franchise shall be ten (10) years.

SECTION 5 - ASSIGNMENT OR TRANSFER OF FRANCHISE

(a) Franchisee shall not transfer this Franchise to any person, firm, company, corporation or any other entity without the prior written consent of the Municipality, which consent shall not be unreasonably withheld or denied.

(b) Notwithstanding the above, this Section 5 shall not be applicable and no prior approval shall be required if Franchisee shall transfer this Franchise to any of its principal partners, to any parent, subsidiary or affiliate of any of the principal partners of Franchisee, or to any other firms or entities controlling, controlled, by or under the same common control as Franchisee.

(c) In the event that the Municipality refuses to grant such consent, it shall set forth specific reasons for its decision in writing by municipal resolution.

SECTION 6 – REVOCATION

(a) The Municipality may revoke this Franchise and all rights afforded Franchisee hereunder in any of the following events or for any of the following reasons:

(i) Franchisee fails to pay within thirty (30) business days of its due date; or

(ii) Franchisee fails to substantially comply or to take reasonable steps to comply with a material provision of this Franchise agreement; or

(iii) Franchisee is adjudged a bankrupt; or

(iv) Franchisee knowingly and willfully attempts or does practice a material fraud or deceit in its securing of this Franchise.

(b) Notwithstanding the above, no revocation shall be effective unless and until, the Municipality shall provide written notice to Franchisee describing in reasonable detail the alleged violation so as to afford the Franchisee an opportunity to remedy the same. Franchisee shall have sixty (60) days subsequent to receipt of the notice in which to correct the violation or if such violation is of such a nature or character as to require more than sixty (60) days within which to correct, such time period shall be extended, provided, however, Franchisee has commenced corrective action within thirty (30) days and thereafter exercises due diligence to correct the same. If Franchisee fails to correct the violation or to commence corrective action in the time period set forth, the Municipality may revoke the Franchise.

(c) Franchisee may notify the Municipality that there is a dispute as to whether a violation or failure has, in fact, occurred. Such notice by Franchisee shall specify with particularity the matters disputed by Franchisee. Upon receipt of said notice from Franchisee, the Municipality shall, following no less than fifteen (15) days prior written notice to Franchisee, schedule a ***Village Board of Trustees*** meeting to determine whether a violation has occurred.

The Municipality shall hear Franchisee's dispute at the ***Village Board of Trustees*** meeting at which Franchisee and public will be afforded a full and fair opportunity to be heard. The ***Village Board of Trustees*** shall determine if Franchisee has committed any of the violations as outlined in (i) through (iv) above and shall make written findings of fact relative to its determination. In the event the Town Board determines that a violation has occurred, Franchisee shall correct the violation or commence corrective action in the time period set forth in subsection (b).

(d) The Municipality may revoke the Franchise or impose any other penalty hereunder only after a public hearing of which Franchisee has been given at least fifteen (15) days notice and at which Franchisee has a right to be heard and present evidence.

(e) Franchisee shall have the right to challenge any determination of non-compliance or revocation or imposition of other penalty to a state or federal district court as Franchisee may choose and any revocation or imposition of other penalty shall not become effective until any such challenge has been finally determined or the time for instituting such challenge shall have expired.

SECTION 7 - INDEMNIFICATION & INSURANCE

(a) Time Warner Cable shall indemnify and hold harmless the Municipality from all liability, damage and cost or expense ***including reasonable attorneys fees and court costs*** arising from claims of injury to persons or damage to property occasioned by reason of any conduct of Time Warner Cable its employees or agents undertaken pursuant to this Franchise. The Municipality shall promptly notify Time Warner Cable of any claim for which it seeks indemnification; afford Time Warner Cable the opportunity to fully control the defense of such claim and any compromise, settlement, resolution or other disposition of such claim, including by making available to Time Warner Cable all relevant information under its control.

(b) Time Warner Cable shall as of the Effective Date of this Franchise obtain liability insurance in the minimum amount set forth within and shall furnish to the Municipality evidence of such liability insurance policy or policies, in the form of a certificate of insurance naming the Municipality as an additional named insured, which policy or policies or replacements thereof shall remain in effect throughout the term of this Franchise; said policy and replacements shall be in the combined amount of Two Million Dollars ($2,000,000.00) for bodily injury and property damage issued by a company authorized to do business in New York State. In addition, Time Warner Cable shall carry Worker's Compensation insurance for its employees in such amounts as is required by the laws of the State of New York. The insurance coverage herein referred to above may be included in one or more policies covering other risks of Time Warner Cable or any of its affiliates, subsidiaries or assigns.

(c) Damage to Municipal Property: Any property of the Municipality damaged or destroyed by the installation or operation of the Cable Television System shall be promptly repaired or replaced by the Company and restored to a condition that existed prior to such damage.

(d) Worker's Compensation: ***Franchisee shall carry worker's compensation insurance as required by the laws of the State of New York.*** Time Warner Cable shall carry such insurance as it deems necessary to protect it from claims made under the applicable New York Sate Worker's Compensation Laws.

(e) Notification of Claims: The Municipality shall notify Time Warner Cable or its local representative within fifteen (15) business days in case of presentation to the Municipality of any claim, demand, suit or action of any type against the Municipality caused by Time Warner Cable. Time Warner Cable may appear in and defend any and all suits, actions, or other legal proceedings, whether judicial, quasi judicial, administrative, legislative, or otherwise, brought or instituted or had by third persons or duly constituted authorities, against, or affecting Municipality, its officers, councilpersons, commissions, agents, or employees, and arising out of or pertaining to the exercise or the enjoyment of this Franchise or the granting thereof by the Municipality. Time Warner Cable shall have sole discretion to compromise, settle or defend said suits, actions or other legal proceedings.

SECTION 8 - USE OF EXISTING POLES AND LOCATION OF UNDERGROUND FACILITIES

(a) Franchisee hereby agrees that when and wherever it deems it economical and reasonably feasible, it shall enter into agreements with telephone or electric or other utilities (collectively "utilities") for the use of said utilities' poles or conduit space whereby said utilities shall provide use of and access to said poles or conduit space by Franchisee for Franchisee's lines and other equipment. Notwithstanding the above, where necessary to service Subscribers and where attachment to the pole(s) or conduit space of utilities is not economically reasonable or otherwise feasible, Franchisee may erect or authorize or permit others to erect any poles or conduit space or any other facilities within the Streets of the Municipality pursuant to the issuance by the Municipality of any necessary authorizations which shall not be unreasonably withheld or delayed.

(b) Subject to the provisions of sub-paragraph (c) below, in such areas of the Municipality where it or any sub-division thereof shall hereafter duly require that all utility lines be installed underground, Franchisee shall install its lines underground in accordance with such requirement.

(c) Notwithstanding the foregoing, if Franchisee shall in any instance be unable to install or locate its wires underground, then the Municipality, on being apprised of the facts thereof, shall permit such wires to be installed above the ground even though other facilities in the area may be placed, or required to be placed, underground. However, any such permission shall be on such conditions as the Municipality may reasonably require.

SECTION 9 - RELOCATION OF PROPERTY

(a) Whenever the Municipality shall require the relocation or reinstallation of any property of Time Warner Cable in or on any of the Streets of the Municipality as a result of the relocation or other improvements by the Municipality of any such Streets, it shall be the obligation of Time Warner Cable on written notice of such requirement to remove and relocate or reinstall such property as may be reasonably necessary to meet the requirements of the Municipality. In the event any other person, including a public utility, is compensated for similar relocation or reinstallation then in such case Franchisee shall be similarly compensated.

(b) Franchisee shall, on request of a person holding a building or moving permit issued by the Municipality, temporarily raise or lower its wires or other property or relocate the same temporarily so as to permit the moving or erection of buildings. The expenses of any such temporary removal, raising or lowering of wires or other property shall be paid in advance to Franchisee by the person requesting the same. Franchisee shall be given in such cases not less than five (5) working days prior written notice in order to arrange for the changes required.

SECTION 10 - USE & INSTALLATION

(a) Franchisee or any person authorized by Franchisee to erect, construct or maintain any of the property of Franchisee used in the transmission or reception of Cable Television Service shall at all times employ due care under the facts and circumstances and shall maintain and install said property of Franchisee in accordance with commonly accepted methods and principles in the cable television industry so as to prevent failures and accidents likely to cause damage or injury to members of the public. All Cable Television System equipment shall conform to those standards of the National Electrical Code and the National Board of Fire Underwriters which exist at the time said equipment is installed and replaced.

(b) Franchisee agrees to install all Cable Television System equipment in a manner to reasonably minimize interference to be expected with the usual use of the Streets and in no event shall any such Cable Television System equipment be located so as to substantially and regularly interfere with the usual public travel on any Street of the Municipality. Franchisee shall construct and maintain its cable system using materials of good and durable quality and shall perform all work

involved in the construction, installation, maintenance and repair of the cable system in a safe, thorough and reliable manner. Franchisee shall promptly repair or replace any municipal property damaged or destroyed by Franchisee so as to restore it to serviceable condition.

(c) Whenever Franchisee or any person on its behalf shall cause any injury or damage to public property or Street, by or because of the installation, maintenance or operation of the Cable Television System equipment, such injury or damage shall be remedied as soon as reasonably possible after the earlier of notice to Franchisee from the Municipality or after Franchisee becomes aware of the same, in such fashion so as to restore the property or Street to serviceable condition. Franchisee is hereby granted the authority to trim trees upon and overhanging the Streets of, and abutting private property, (i.e., in the public way) in the Municipality to the extent it reasonably deems necessary so as to prevent the branches or growths from coming in contact with the wires, cable and other equipment of Franchisee's Cable Television System.

SECTION 11 - CONTINUOUS SERVICE

Franchisee shall continue to provide cable service to all subscribers who meet their obligations to Franchisee with respect to such service. Franchisee shall not, without the written consent of the Municipality abandon its cable television system or any portion thereof without the written consent of the Municipality.

SECTION 12 - FRANCHISE AREA AND LINE EXTENSION

(a) Franchisee shall comply with the requirements for construction of cable television plant and provision of cable television services as set forth in Section 895.5 of the Rules of the NYSPSC. For the purpose of this calculation, the number of homes per linear mile of aerial cable shall be twenty five (25) and located within 200 feet of aerial feeder cable.

(b) Company shall construct and maintain its cable system using materials of good and durable quality and shall perform all work involved in the construction, installation, maintenance and repair of the cable system in a safe, thorough and reliable manner.

(c) Where, in any place within the Municipality all of the electric and telephone utilities shall be located underground, it shall be the obligation of the Company to locate or to cause its property to be located underground within such places. The Company shall have an affirmative obligation to relocate aerial lines underground at the same time as electric and telephone utilities are so required. If the Company shall in any instance be unable to locate or relocate any part of its property underground, then the Municipality, on being apprised of the facts thereof, shall permit such property to remain above the ground even though other facilities in the area may be placed underground. However, any such permission shall be on such conditions as the Municipality may reasonably require to protect the public health and safety. If the Company is required to relocate its facilities underground, it shall do so at its own expense provided utilities and other users of the rights of way do so at their own expense.

SECTION 13 - OPERATION AND MAINTENANCE

(a) Franchisee shall maintain and operate its cable television system at all times in compliance with the duly promulgated and lawful provisions of Section 896 of the Rules and Regulations of the NYSPSC and the technical requirements set forth by the FCC. Franchisee shall maintain staffing levels and support equipment to assure that telephone inquiries are handled promptly in order to minimize busy signals and hold time. Franchisee shall have, at all times, a person on call able to perform minor repairs or corrections to malfunctioning equipment of the cable system. Franchisee shall respond to individual requests for repair service no later than the next business day. System outages, and problems associated with channel scrambling and switching equipment, shall be acted upon promptly after notification. Franchisee shall maintain a means to receive repair service requests and notice of system outages at times when its business office is closed. The Municipality shall have the right and authority to request an inspection or test performed, all at the Municipality's expense. Franchisee shall fully cooperate in the performance of such testing.

(b) ***Throughout the term of this Franchise, Franchisee's Cable Television System shall have a minimum channel capacity of 750 MHz. Franchisee shall exercise reasonable efforts in good faith to maximize the number of energized channels available to subscribers.***

SECTION 14 - RATES

(a) No rates or charges shall be regulated by or for the Municipality contrary to or inconsistent with applicable federal statutes or the rules and regulations of the FCC or Section 895.1(e) of the PSC. Rules.

(b) The Company shall not unlawfully discriminate against individuals in the establishment and application of rates and charges for cable services available to generally all subscribers. This provision is not intended to and shall not prohibit (i) sales, promotions or other discounts which the Company deems necessary or desirable to market its cable services; (ii) the Company from providing any of its services (and at such rates) as it shall deem necessary or desirable to any or all Subscribers where cable television service or any similar service is offered or provided in competition with the Company's services; or (iii) the Company from discounting rates to persons who subscribe to any services on a seasonal basis or discounting rates to persons who subscribe to any services that provided on a bulk billed basis.

SECTION 15 - SERVICE TO PUBLIC FACILITIES, ACCOUNTABILITY PROVISIONS AND INSPECTION OF RECORDS

(a) At the request of the Municipality, Franchisee shall provide and maintain a single service outlet to any accredited school, police station, firehouse and municipally owned building which is occupied for governmental purposes, provided the connection point is no further than two hundred (200) feet from the closest feeder line of the Cable Television System. All such

connections shall be above ground except where all utility lines and cables in the area are underground. The Municipality shall not extend such service to additional outlets, without the express written consent of Franchisee.

(b) Municipality, upon reasonable notice and during normal business hours, shall have the right to inspect all books, records, maps, plans, financial statements and other like materials of Time Warner Cable which are pertinent to Franchisee's compliance with the terms and conditions of this Franchise.

(c) Records Retention: All books, records, correspondence, applications and other documentation of ongoing business relative to the operation of the Company within the Municipality shall be maintained for any period specified in the regulations of the PSC.

(d) Reports: The Company shall submit, upon written request and within 10 business days of such request, copies of all petitions, applications and communications relating to the Municipality, which are submitted by the Company to the Federal Communications Commission, the New York State Public Service Commission, or any other Federal, or State regulatory commission or agency having jurisdiction in respect to any other matters affecting cable communications in the Municipality authorized pursuant to this Franchise.

(e) Municipality and Franchisee agree that Franchisee's obligations hereunder are subject to any applicable law, including laws regarding the privacy of information regarding subscribers.

(f) Municipality will maintain the confidentiality of any information obtained pursuant to this provision to the extent permitted by law, provided Franchisee has advised Municipality of the confidential nature of the information. In the event that the Municipality receives request for the disclosure of such information with which it, in good faith, believes it must under law comply, then the Municipality will give Franchisee notice of such request as soon as possible prior to disclosure in order to allow Franchisee to take such steps as it may deem appropriate to seek judicial or other remedies to protect the confidentiality of such information.

(g) The Company shall maintain maps of suitable scale showing the location of headend, all trunk and distribution lines. Service drops need not he shown. Upon written request, within ten (10) days, the Company shall allow the Municipality to inspect all such maps for the purpose of insuring compliance with this franchise

SECTION 16 - PUBLIC, EDUCATIONAL AND GOVERNMENTAL ACCESS CHANNELS

Franchisee shall comply with the minimum standards for public, educational and governmental (PEG) access as set forth in Section 895.4 of the Rules of the NYSPSC.

SECTION 17 - ADDITIONAL SUBSCRIBER SERVICES

(a) Payment for cable television service rendered to subscribers is due and payable in advance. A late charge, as determined by Franchisee, may be applied to delinquent accounts.

(b) Payment for equipment provided by Franchisee to subscribers and the installation, repairs, and removal thereof shall be paid in accordance with Franchisee's standard and customary practices and applicable rules and regulations of the FCC and NYPSC.

(c) Franchisee shall have the right to disconnect delinquent subscribers and charge such subscribers a disconnection charge as determined by Franchisee, where:

(1) At least five (5) days have elapsed after written notice of discontinuance has been served personally upon a subscriber; or

(2) At least eight (8) days have elapsed after mailing to the subscriber written notice of discontinuance addressed to such person at the premises where the service is rendered.

(d) Notice of Franchisee's procedures for reporting and resolving billing disputes and Franchisee's policy and the subscribers rights in regard to "personally identifiable information," as that term is defined in Section 631 of the Communications Act, will be given to each subscriber at the time of such person's initial subscription to the Cable Television System services and thereafter to all subscribers as required by Federal or State law.

(e) Franchisee shall offer to, and shall notify in writing, the subscribers of the availability of locking program control devices which enable the subscriber to limit reception of obscene or indecent programming in the subscriber's residence. Any subscriber requesting such device shall pay Franchisee in full upon receipt of the same charge to new subscribers at the time of installation and thereafter to all subscribers as required by Federal or State law.

(f) In accordance with the applicable requirements of Federal and State laws, Franchisee shall provide written notice of any increases in rates or charges for any Cable Television Service.

(g) The Administrator, as the case may be, for the Municipality for this Franchise shall be Supervisor or Mayor of the Municipality. The Administrator is responsible for the continuing administration of the Franchise on behalf of the Municipality. All correspondence and communications between Franchisee and the Municipality pursuant to this Franchise shall be addressed by Franchisee to the Administrator.

(h) It is agreed that all Cable Television Service offered to any subscribers under this Franchise shall be conditioned upon Franchisee having legal access to any such subscriber's dwelling units or other units wherein such service is provided.

(i) Franchisee shall comply with the Customer Service Consumer Protection Standards set forth in Sections 890 and 896 of the Rules and Regulations of the NYSPSC.

(j) At least once each year, Franchisee shall provide notice to each subscriber of its procedures for reporting and resolving subscriber complaints.

SECTION 18 - FRANCHISE FEES

(a) ***The Franchisee shall pay to the Municipality on a quarterly basis throughout the term of this Franchise a sum equal to three percent (3 %) of Gross Revenues. Franchise fees shall be paid within sixty (60) days after the end of each calendar quarter. All fees shall be accompanied by a revenue summary statement in such form as the Franchisee and Municipality shall agree.***

No acceptance of any payment shall be construed as an accord that such payment is in fact the correct amount, nor shall such acceptance of payment be construed as a release of any claim the Town may have for further or additional sums payable based upon the provisions of this franchise renewal agreement.

(b) Subject to the approval of the NYPSC, Municipality shall have the right to seek amendment of the franchise to reduce the franchise fee paid hereunder. ***Franchisee*** shall use its best efforts to implement any new franchise fee percentage within 60 days of such approval.

(c) In the event an audit concludes the ***Franchisee's*** payment hereunder was underpaid by an amount greater than five percent (5%) of the proper payment, then the ***Franchisee*** shall reimburse the Town for the cost of the audit, in addition to any other remedies available to the Town. The Town may collect interest from the ***Franchisee*** on the underpayment at a rate equal to the prime rate. If the ***Franchisee*** disputes such finding, there shall be no imposition of interest while resolution of such disputes is attempted, or during the time the ***Franchisee*** is challenging the Town's findings in any court of competent jurisdiction, unless the findings of the Town are upheld.

(d) There shall be applied as a credit against the Franchise Fee the aggregate of: (I) any taxes, fees or assessments of general applicability imposed on ***Franchisee*** or any subscribers, or both, which are discriminatory against ***Franchisee*** or any subscribers, (ii) any non-capital expenses incurred by ***Franchisee*** in support of the PEG access requirements of this Franchise and (iii) any fees or assessments payable to the NYSPSC which when combined with all other fees and credits would exceed 5% of gross revenues. ***Franchisee shall have the right to apply franchise fees paid as a credit against special franchise assessments pursuant to Section 626 of the New York State Real Property Tax Law.***

SECTION 19 - SEVERABILITY, GOVERNING LAW, POLICE POWERS REQUESTS FOR AUTHORIZATION AND NON-DISCRIMINATION

(a) Should any provision of this Franchise be held invalid by a court or regulatory agency of competent jurisdiction, the remaining provisions of this franchise shall remain in full force and effect.

(b) To the extent not inconsistent with or contrary to applicable federal law, the terms of this Franchise shall be governed and construed in accordance with the laws of the State of New York. The parties hereby acknowledge and agree that any provisions of this Franchise or any existing State or local laws or rules that are inconsistent with or contrary to any applicable Federal law, including the Cable Act, as the same may be amended, are and shall be prohibited, preempted and/or superseded to the extent of any inconsistency or conflict with any applicable Federal laws.

(c) In addition to the provisions contained in this Franchise and in existing applicable ordinances, the Municipality may adopt such additional regulations as it shall find necessary in the exercise of its police power, provided, however, that such regulations are reasonable and not materially in conflict with the privileges granted in this Franchise.

(d) Franchisee shall file requests for any necessary operating authorization with the NYSPSC and the FCC within sixty (60) days from the date the Franchise is awarded by the Municipality.

(e) Franchisee will not refuse to hire or employ, nor bar or discharge from employment, nor discriminate against any person in compensation or in terms, conditions or privileges of employment because of age, race, creed, color, national origin or sex.

(f) Access to cable service will not be denied to any group of potential subscribers because of the income of the residents of the local area in which the group resides.

(g) The terms of the franchise are subject to the approval of the Public Service Commission.

SECTION 20- NOTICE

All notices required herein shall be in writing and shall be deemed delivered when received by United States certified mail, return receipt requested, or on the date of delivery to addressee when sent by express mail, or overnight, or hand delivered to the parties and locations as specified below. Both Franchisee and Municipality may change where notice is to be given by giving notice to the other.

When notices sent to

Franchisee: Time Warner Cable of Syracuse
Attention: General Manager
6005 Fair Lakes Road
East Syracuse, New York 13057
Telephone: (315) 634-6200
Facsimile: (315) 463-8020

or

Time Warner Cable
Attention: Division President
6005 Fair Lakes Road
East Syracuse, New York 13057
Telephone: (315) 634-6200
Facsimile: (315) 463-2088

When notices sent to Municipality:

Village of Weedsport
Attention: Mayor
8892 South Street
Weedsport, New York 13166

SECTION 21- FORCE MAJEURE

In no event, and notwithstanding any contrary provision in this Franchise, shall this Franchise be subject to revocation or termination, or Franchisee be subject to penalty or prejudice or in any way liable for non-compliance with or delay in the performance of any obligations hereunder, where its failure to cure or take reasonable steps to cure is due to reason of strike, Acts of God, acts of public enemies, order of any kind of a government of the United States of America or of the State or any of their departments, agencies, political subdivisions; riots, epidemics, landslides, lightning, earthquakes, fires, hurricanes, tornadoes, volcanic activity, storms, floods, washouts, droughts, civil disturbances, explosions, partial or entire failure of utilities or any other cause or event not reasonably within the control of Franchisee. Franchisee shall not be deemed to be in violation or default during the continuance of such inability and Franchisee shall be excused from its obligations herein during the course of any such events or conditions and the time specified for performance of Franchisee's obligations hereunder shall automatically extend for a period of time equal to the period of the existence of any such events or conditions and such reasonable thereafter as shall have been necessitated by any such events or conditions.

SECTION 22- RIGHTS OF ENFORCEMENT

Nothing contained in this Franchise is intended to or shall confer any rights or remedies on any third parties to enforce the terms of this Franchise.

SECTION 23- FURTHER ASSURANCES

The Municipality shall, without further consideration, execute and deliver such further instruments and documents and do such other acts and things as Franchisee may reasonably request in order to effect and confirm this Franchise and the rights and obligations contemplated herein.

SECTION 24- INTEGRATION

This Franchise supersedes all prior negotiations between the parties hereto and shall be binding upon and inure to the benefit of the parties hereto and each of their respective successors and permitted assigns. This Franchise may be amended (except as otherwise expressly provided for herein) only by agreement in writing signed by duly authorized persons on behalf of both parties. To the extent required by State law, amendments hereto shall be confirmed or approved by the NYSPSC.

This Franchise may be executed in one or more counterparts, all of which taken together shall be deemed one (1) original.

The headings of the various Sections of this Franchise are for convenience only, and shall not control or affect the meaning or construction of any of the provisions of the Franchise.

The rights and remedies of the parties pursuant to this Franchise are cumulative and shall be in addition to and not in derogation of any rights or remedies which the parties may have with respect to the subject matter of this Franchise.

SECTION 25- NO JOINT VENTURE

Nothing herein shall be deemed to create a joint venture or any agency or employment relationship between the parties, and neither party is authorized to nor shall either party act toward any third parties or to the public in any manner which would indicate any such relationship with the other.

IN WITNESS WHEREOF, the parties hereto have executed this agreement this 23 day of May, 2007.

TIME WARNER ENTERTAINMENT-ADVANCE/NEWHOUSE PARTNERSHIP

By: _____
Mary Cotter

Title: Division President

MUNICIPALITY: VILLAGE OF WEEDSPORT

By: _____
Jean B. Saroodis

Title: Mayor

STATE OF NEW YORK
Village of Weedsport
County of Cayuga

In the Matter of the Renewal of the Cable Television Franchise Held by
TIME WARNER ENTERTAINMENT-ADVANCE/NEWHOUSE

PARTNERSHIP in the Village of Weedsport, Cayuga County, New York
RESOLUTION

An application has been duly made to the Board of the Village of Weedsport, County of Cayuga, New York, by **TIME WARNER ENTERTAINMENT-ADVANCE/NEWHOUSE PARTNERSHIP ("Time Warner")**, a partnership organized under the laws of the State of New York doing business at 6005 Fair Lakes Road, East Syracuse, NY 13221, and holder of a cable television franchise in the Village of Weedsport for the approval of an agreement to renew Time Warner's cable television franchise for an additional ten (10) years commencing _____, ____. The Franchise Renewal Agreement would bring the franchise into conformity with certain provisions of the Federal Cable Communications Policy Act of 1984, as amended, and certain court rulings.

A public hearing was held in the Village of Weedsport, New York on January 25, 2007 at 7 P.M. and notice of the hearing was published in the Citizen on Jan 1 & 7, 2007.

NOW, THEREFORE, the Board of the Village of Weedsport finds that:

1. Time Warner has substantially complied with the material terms and conditions of its existing franchise and with applicable law; and

2. The quality of the Time Warner service, including signal quality, response to customer complaints and billing practices has been in light of community needs; and

3. Time Warner has the financial, legal and technical ability to provide these services, facilities and equipment as set forth in its proposal attached; and

4. Time Warner can reasonably meet the future cable-related community needs and interests, taking into account the cost of meeting such needs and interests.

BE IT FURTHER RESOLVED that the Board of the Village of Weedsport hereby renews the cable television franchise of Time Warner in the Village of Weedsport for ten (10) years commencing February 14, 2007 and expiring February 14, 2017

BE IT FURTHER RESOLVED that the Board of the Village of Weedsport hereby confirms that this Franchise Renewal Agreement replaces the original franchise last amended on _____, ____.

The foregoing having received a unanimous vote was thereby declared adopted.

Dated: June 19, 2007

Sandra J Kaplan

Village of Weedsport Clerk

#5482/Cable Franchise
LEGAL NOTICE
PLEASE TAKE NOTICE THAT the Village board of the **Village of Weedsport**, Cayuga County, New York has scheduled a joint public hearing with the Town of Brutus, the Town of Elbridge, the Village of Elbridge and the Village of Jordan, for the 25th of January, 2007, at 7:00 p.m. at the Jordan-Elbridge High School Auditorium, 5721 Hamilton Road, Jordan, New York to consider renewal of the cable television franchise held by TimeWarner Entertainment-Advance/Newhouse Partnership (hereinafter referred to as "Time Warner Cable"). The purpose of the hearing is to consider a Franchise Renewal Agreement which would renew Time Warner Cable's cable television franchise for an additional ten (10) years commencing upon approval of the New York State Public Service Commission, while bringing the franchise into conformity with certain provisions of the Federal Cable Communications Policy Act of 1984, as amended.
The Agreement, if approved by the Village Board, shall not take effect without the prior approval of the New York State Public Service Commission. A copy of the Franchise Renewal Program is available for public inspection at the Office of the Village Clerk during normal business hours. Interested persons may file comments or objections with the New York State Police Public Service Commission, Three Empire State Plaza, Albany, New York 12223.
T2, 1/1, 1/7

State of New York
Cayuga County City of Auburn

Shanelle Filoso of the City of Auburn, in said County, being duly sworn, deposes and says:

That she is the receptionist of Lee Publications, Inc. publishers of The Citizen, a public newspaper printed and published daily in the City of Auburn, in said County, and duly authorized to make this affidavit, and that the #5482/Cable Franchise

Village of Weedsport

of which annexed is a printed copy, was published in said paper

two time s namely on the 1st, and 7th day s of January 20 07.

Shanelle Filoso

Sworn to before me, this 15th day of January 2007.

Carol Speach
Notary Public

Carol Speach
Notary Public
State of New York
01SP6139936
Qualified in Cayuga County
Commission Expires 01/17/12

State of New York

Cayuga County City of Auburn

Stacey Church of the City of Auburn, in said County, being duly sworn, deposes and says:

That she is the receptionist of Lee Publications, Inc. publishers of The Citizen, a public newspaper printed and published daily in the City of Auburn, and distributed in Cayuga County, and duly authorized to make this affidavit, and that the

Weedsport Franchise Renewal

Time Warner Cable

of which annexed is a printed copy, was published in said paper

two time s namely on the

12th and 19th day s of

August 20 07.

Stacey Church

Sworn to before me, this 24th day of August 20 07.

Yicki A Mace

Notary Public

Yicki A. Mace
Notary Public, State of New York
01MA6106283
Qualified in Cayuga County
Commission Expires 2008

Weedsport Franchise Renewal

LEGAL NOTICE

PLEASE TAKE NOTICE THAT Time Warner Entertainment-Advance/Newhouse Partnership, a New York general partnership organized and existing under the laws of the State of New York d/b/a **Time Warner Cable**, has filed an application for renewal of its Certificate of Confirmation and Cable Television Franchise in the Village of Weedsport, Cayuga County, New York, with the New York State Public Service Commission.

The application is available for public inspection at the office of the New York State Public Service Commission and at the office of the Clerk of the Village of Weedsport, 8892 South Street, Weedsport, New York 13166, during normal business hours.

Any interested persons may file comments on the application with the New York State Public Service Commission, Three Empire State Plaza, Albany, New York 12223.

TIMEWARNER CABLE
SYRACUSE DIVISION
T2, 8/12, 8/19

APPLICATION FOR RENEWAL OF FRANCHISE
OR CERTIFICATE OF CONFIRMATION
(Form R-2):

1. The exact legal name of applicant is:

Time-Warner Entertainment-Advance/Newhouse Partnership

2. Applicant does business under the following name or names:

Time Warner Cable - Syracuse Division

3. Applicant's mailing address is:

6005 Fair Lakes Road

P.O. Box 4791

East Syracuse, NY 13221

4. Applicant's telephone number(s) is (are):

(315) 634-6100 Time Warner Cable
6005 Fair Lakes Road
East Syracuse, NY 13221

5. (a) This application is for the renewal of operating rights in the

Village of Weedsport - Cayuga County
(Municipality & County)

(b) Applicant serves the following additional municipalities from the same headend or from a different headend but in the same or adjacent county:

See Attached List (Exhibit 1)

6. The number of subscribers in each of the municipalities noted above is:

- Primary residential connections	See Question #5(b)
- Secondary residential connections	N/A
- Residential pay-cable subscriptions	N/A
- Commercial connections	N/A
- Other	N/A

7. The following signals are regularly carried by the applicant's cable system (where signals are received other than by direct off-air pickup, please so indicate):

See Attached Channel Line-Up Card (Exhibit A)

8. Applicant does __X__ does not _____ provide channel capacity and/or production facilities for local origination. If answer is affirmative, specify below the number of hours of locally originated programming carried by the system during the past twelve months and briefly describe the nature of the programming:

Applicant has carried over 100 hours of locally originated programming of various types, including PEG Access.

9. The current monthly rates for service in the municipality specified in Question 5(a) are:

- Primary residential connections	See Attached Rate Card (Exhibit B)
- Secondary residential connections	See Attached Rate Card (Exhibit B)
- Pay-cable subscriptions	See Attached Rate Card (Exhibit B)
- Commercial connections	See Attached Rate Card (Exhibit B)
- Other	See Attached Rate Card (Exhibit B)

10. How many miles of new cable television plant were placed in operation by applicant during the past twelve months in the municipality specified in Question 5(a)? 0 miles In the municipalities specified in Question 5(b)? See Attached List (Exhibit 2)

11. State and describe below any significant achievements and/or improvements that took place with respect to system operation during the past twelve months:

The System is rebuilt to a minimum of 750 MHZ.

12. Indicate whether applicant has previously filed with the NYS Department of Public Service its:

(a) Current Statement of Assessment pursuant to Section 217 Chapter 83?
___X___ Yes _____ No

(b) Current Annual Financial Report? ___X___ Yes _____ No

If answer to any of the above is negative, please explain:

N/A

13. Has any event or change occurred during the past twelve months which has had, or could have, a significant impact upon applicant's ability to provide cable television service? If so describe below:

No event or change has occurred during the past twelve months which has had, or could have, a significant impact upon applicant's ability to provide cable television services.

WHEREFORE, the applicant, Time Warner Cable, requests that the New York State Public Service Commission grant this application and approve the Town of Adams Certificate of Confirmation and Franchise Agreement.

Mary L. Cotter
President
Time Warner Cable - Syracuse Division

Dated: August 16, 2007

Please attach a copy of applicant's current annual performance test.

STATE OF NEW YORK)
) S.S.:
COUNTY OF ONONDAGA)

MARY L. COTTER, being sworn, says:

1. I am President of the Syracuse Division of Time Warner Cable and I am familiar with the business operations of the Company

2. This application was prepared by me or under my direct supervision.

3. All of the statements and information contained herein are true and accurate to the best of my knowledge and belief.

Mary L. Cotter

Sworn to before me this

14th day of August, 2007

FRANCIS E. MRAZEK
Notary Public, State of New York
No. 01MR4311701
Qualified in Onondaga County
Commission Expires 9/30/09

Notary Public

EXHIBIT A

Basic Channel Line-up

Standard Channel Line-up

PREMIUM CHANNELS

Digital Channel Line-up

PAY-PER-VIEW

ADULT

MOVIES ON DEMAND

Line-up subject to change. For the most up to date listing, go to www.timewarnercable.com

FREE ON DEMAND

[illegible]
[illegible] On Demand
[illegible] On Demand
[illegible] A&E Channel On Demand
[illegible] BBC America On Demand
[illegible] CNN Showcase On Demand
[illegible] Channel On Demand
[illegible] Your Neighborhood Expo
[illegible] TV On Demand
564 Oxygen On Demand
565 Kids On Demand
566 Kids On Demand Preschool
567 National Geographic On Demand
568 Speed Channel On Demand
569 [illegible] Music On Demand
570 GAC On Demand
571 TBS On Demand
572 TNT On Demand
574 Exercise TV On Demand
575 Sportskool On Demand
576 Cutting Edge On Demand
577 Time Warner Sports On Demand
[illegible] Music Choice [illegible] and Rock
[illegible] Music Choice Urban and Latin
799 HD Showcase
[illegible] Answers On Demand
[illegible] Automotive On Demand
[illegible] SI On Demand
1280 Movie Trailers On Demand
[illegible] TV On Demand
[illegible] TV On Demand

MUSIC CHOICE

701 Showcase
702 Today's Country
703 Classic Country
704 Bluegrass
705 R&B & Hip Hop
706 Classic R&B
707 Smooth R&B
708 [illegible]
709 [illegible]
710 [illegible]
711 Rock
712 Arena Rock
713 Classic Rock
714 Alternative
[illegible] Retro Active
716 [illegible]
717 [illegible]
[illegible] Adult Alternative
719 Soft Rock
720 Hit List
721 Party Favorites
722 [illegible]
723 [illegible]
724 [illegible]
725 [illegible]
726 Singers & Standards
727 Big Band & Swing
72[illegible] Easy Listening
[illegible] Smooth Jazz
730 Jazz
731 Blues
732 Reggae
733 Soundscapes
734 Classical Masterpieces
735 Opera
736 Light Classical
737 Showtunes
738 Contemporary Christian
739 Gospel
740 Radio Disney
741 Sounds of the Season
742 Musica Urbana
74[illegible] Salsa y Merengue
7[illegible] Rock en Espanol
745 Pop Latino
746 Mexicana
747 Americana

PREMIUM CHANNELS

[illegible]

ENCORE

[illegible]

SPORTS PLUS PACKAGE

[illegible] Fox Sports [illegible]
[illegible] NBA TV
[illegible] NFL [illegible]

LATINO ESPECIAL PACKAGE

[illegible]

INTERNATIONAL PREMIUM SERVICES

[illegible]

FAMILY CHOICE TIER

[illegible]

HIGH DEFINITION TIER

[illegible] MOJO

HIGH DEFINITION CHANNELS

[illegible] TNT HD

[illegible]

TIME WARNER CABLE

Syracuse 7/07
SYR-03[illegible]

EXHIBIT B

Syracuse Rates & Services

Syracuse 4/07
SYR 1811

	56.68
Standard Service	55.43
Home Box Office	12.95
Cinemax	9.95
Showtime Unlimited	10.95†
Starz	8.75
Explorer Pak	8.50
Digital Movie Pak	6.00
High-Definition Package	4.95
Sports Plus Package	1.95
Latino Especial Package	9.95
Digital Navigator Package	1.00
Digital Video Recorder	7.95
Family Choice	12.99
Home Terminal Digital Terminal HD Terminal	7.64
Remote Digital Remote	.31
Cable Card	2.73
Standard Install. Reconnect	33.74
Standard installation	50.51
Additional Outlet(s)	22.10
Additional Outlet(s)	34.00
Equipment Deactivation Fee	3.99
COD Fee	5.95

Digital Terminal is required in order to receive some channels and/or services. Rates and charges apply to standard residential installation and service. The above rates for cable service packages and equipment do not include franchise fees or State and Federal regulatory fees.

6005 Fair Lakes Road • E. Syracuse, NY 13057-4259
(315) 634-6000 • www.twcny.com

TIME WARNER CABLE

CURRENT ANNUAL PERFORMANCE TEST

Exhibit 1

Question 5(b): Applicant serves the following additional Municipalities from the same headend or from a different headend but in the same or adjacent county:

Municipality	Subscribers	Municipality	Subscribers
Village of E. Carthage	1,223	Town of Antwerp	5
Town of LeRay	32	Town of Philadelphia	60
Town of Theresa	40	Village of Antwerp	210
Village of Evans Mills	237	Village of Philadelphia	443
Village of Theresa	246	Fort Drum	2,843
Town of Champion	412	Town of Croghan	209
Town of Denmark	219	Town of New Bremen	269
Town of Wilna	456	Village of Castorland	96
Village of Copenhagen	255	Village of Croghan	300
Village of Deferiet	101	Village of Herrings	27
Village of W. Carthage	694	Town of Brownville	207
Town of Cape Vincent	664	Town of Clayton	1,030
Town of Hounsfield	156	Town of Lyme	111
Town of Orleans	557	Village of Cape Vincent	347
Village of Chaumont	223	Village of Clayton	619
Village of Dexter	349	Village of Sackets Harbor	572
Town of Bangor	337	Town of Bombay	201
Town of Burke	119	Town of Chateaugay	52
Town of Constable	274	Town of Fort Covington	339
Town of Malone	815	Town of Moira	399
Town of Westville	329	Village of Brushton	313
Village of Burke	83	Village of Chateaugay	340
Village of Malone	2,334	Town of Potsdam	1,097
Town of Canton	896	Town of Colton	495
Town of Dekalb	148	Town of Hermon	6
Town of Hopkinton	180	Town of Madrid	253
Town of Parishville	514	Town of Pierrepont	521
Town of Russell	120	Village of Canton	1,320
Village of Hermon	129	Village of Norwood	608
Village of Potsdam	1,849	Town of Fowler	341
Town of Gouverneur	426	Village of Gouverneur	1,405
Village of Richville	122	Town of Brasher	454
Town of Lawrence	223	Town of Louisville	1,033
Town of Massena	834	Town of Norfolk	500
Town of Stockholm	295	Town of Waddington	21
Village of Massena	4,415	City of Ogdensburg	3,873
Town of Lisbon	480	Town of Morristown	244
Town of Oswegatchie	561	Village of Heuvelton	295
Village of Morristown	163	Village of Rennselaer Falls	140
Village of Waddington	391	Town of Altona	241
Town of Champlain	416	Town of Chazy	790

Town of Ellenburg	390	Town of Mooers	205
Village of Champlain	416	Village of Mooers	205
Village of Rouses Point	852	Town of Martinsburg	192
Town of Henderson	157	Town of New Bremen	9
Town of Watson	310	Town of Grieg	315

Exhibit 2

Question 10: The number of miles of new cable television plant placed in operation by applicant during the past twelve (12) months in the municipalities specified in Question 5(b) are:

Municipality	Miles of Plant	Municipality	Miles of Plant
Town of Champion	0.16 Miles	Town of Hounsfield	0.16 Miles
Town of Champlain	0.1 Miles	Town of Chazy	0.3 Miles
Town of Ellenburg	0.1 Miles	Town of Mooers	0.1 Miles
Village of Rouses Point	0.1 Miles	Town of Bombay	0.1 Miles
Town of Constable	0.2 Miles	Town of Malone	0.2 Miles
Town of Westville	0.1 Miles	Village of Burke	0.2 Miles
City of Ogdensburg	0.3 Miles	Town of Lisbon	2.3 Miles
Town of Morristown	15.5 Miles	Town of Oswegatchie	6.5 Miles
Village of Heuvelton	0.1 Miles	Village of Morristown	0.1 Miles
V. of Rennselaer Falls	0.7 Miles	Town of Canton	0.6 Miles
Town of Parishville	0.2 Miles	Village of Norwood	0.7 Miles

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TIME WARNER CABLE - SYRACUSE DIVISION

FCC Proof - of - Performance Tests

System Name	:	Syracuse			
Plant Mileage	:	3698.1400	***As of***	:	08/01/2006
Basic Subscribers	:	177456	***As of***	:	08/01/2006
System Bandwidth	:	550.0000			
Number of Channels Tested	:	9			
Number of Test Points	:	21			
Test Start Date	:	08/01/2006			
Test Completion Date	:	08/31/2006			

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TIME WARNER CABLE - SYRACUSE DIVISION

Statement of Qualifications

System Name : Syracuse

Date : 08/01/2006

FCC Testing Summary

Changes Since Last Proof of Performance Test :

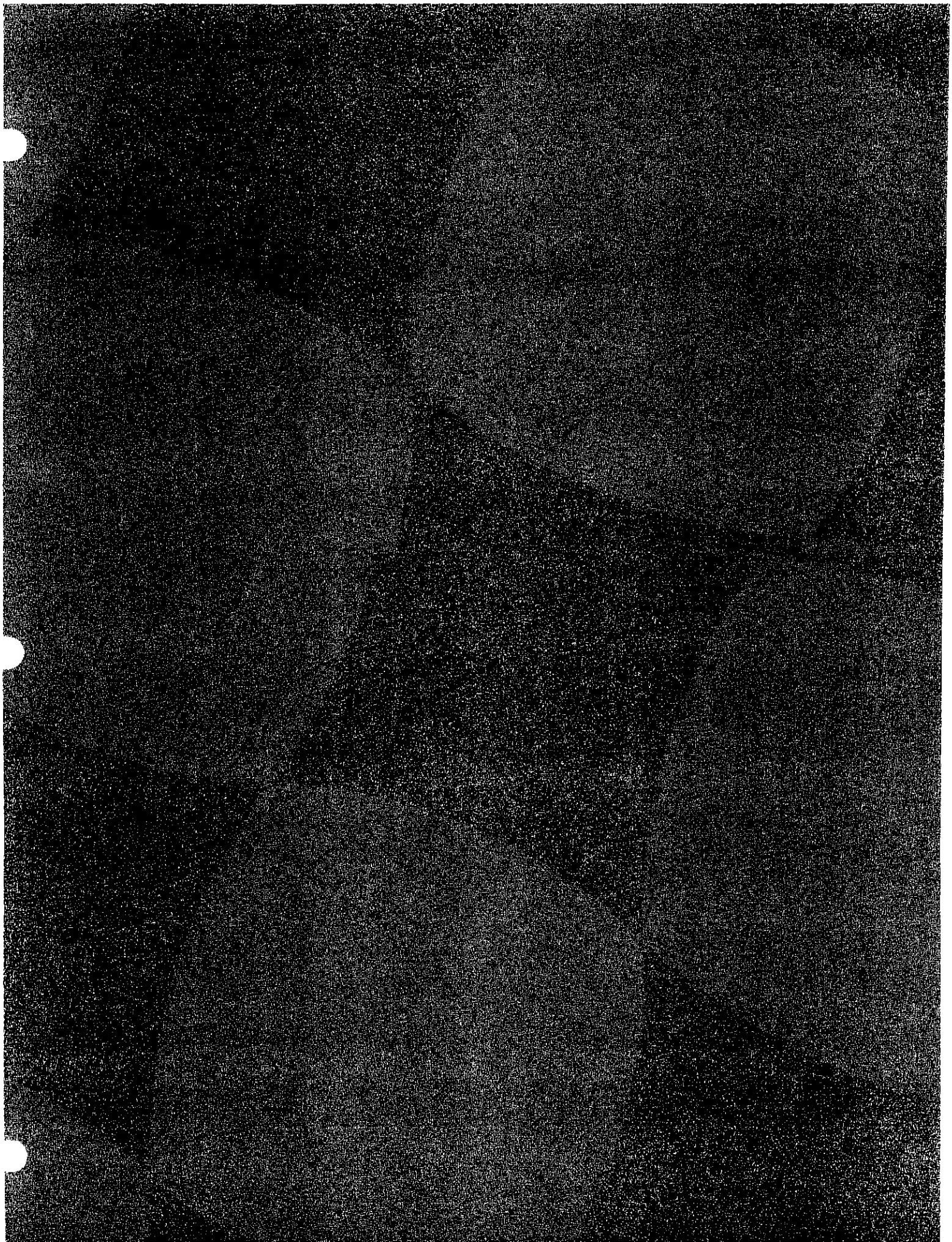
National Geographic was dropped from analog channel 66
Fox Sports New York was dropped from analog channel 54 and added to analog channel 73
Sports Net New York was added to analog channel 54
Pin was added to analog channel 99
Simulcast Qam's have been added at frequencies: 477MHz, 555MHz, 585MHZ, 663MHz, 681MHz

Test Results :

All test results were favorable

Miscellaneous :

Time Warner Cable system includes: Syracuse: Fulton, Oswego, Seneca, and Central Square.
The following are fed from the Fairlakes headend: Geddes, Burdick, Merdian, Oswego, Fulton, Baldswinsville, Liverpool, Davis, Mapleview, Chimes, and Cuyler
Digital services occupy frequencies from 550MHz to 747MHz



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TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Syracuse ***Date*** : 08/01/2006

Sub System Name : Syracuse-Suburbs

ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE	ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE
2	55.2500	2	TV			TVGUID	SAT	DD (40)	319.2625	40	TV		Y	TWC	SAT
3	61.2500	3	TV		Y	WSTM	OFFAIR	EE (41)	325.2625	41	TV		Y	TRAVEL	SAT
4	67.2500	4	TV		Y	WSPX	OFFAIR	FF (42)	331.2750	42	TV		Y	HSN	SAT
5	77.2500	5	TV		Y	WTVH	OFFAIR	GG (43)	337.2625	43	TV		Y	HALLM	SAT
6	83.2500	6	TV			WSTQ	STUDIO	HH (44)	343.2625	44	TV		Y	EWTN	SAT
A-5 (95)	91.2500							II (45)	349.2625	45	TV		Y	TNT	SAT
A-4 (96)	97.2500							JJ (46)	355.2625	46	TV			FOOD	SAT
A-3 (97)	103.2500							KK (47)	361.2625	47	TV			TVLAND	SAT
A-2 (98)	109.2750	98	TV			P/A	LOCAL	LL (48)	367.2625	48	TV		Y	BET	SAT
A-1 (99)	115.2750	99	TV			PIN	SAT	MM (49)	373.2625	49	TV			TLC	SAT
A (14)	121.2625	14	TV		Y	WGN	SAT	NN (50)	379.2625	50	TV			COMEDY	SAT
B (15)	127.2625	15	TV			HBO	SAT	OO (51)	385.2625	51	TV		Y	TOON	SAT
C (16)	133.2625	16	TV			AMER	SAT	PP (52)	391.2625	52	TV			COURT	SAT
D (17)	139.2500	17	TV		Y	WTBS	SAT	QQ (53)	397.2625	53	TV			YES	SAT
E (18)	145.2500	18	TV		Y	ANIMAL	SAT	RR (54)	403.2500	54	TV			SPNY	SAT
F (19)	151.3210	19	TV		Y	QVC	SAT	SS (55)	409.2500	55	TV			OLN	SAT
G (20)	157.2500	20	TV		Y	ABCFAM	SAT	TT (56)	415.2500	56	TV			MSG	SAT
H (21)	163.2500	21	TV			FXNET	SAT	UU (57)	421.2500	57	TV		Y	GOLF	SAT
I (22)	169.2500	22	TV		Y	CNN	SAT	VV (58)	427.2500	58	TV			SOAP	SAT
7	175.2500	7	TV		Y	WNYS	OFFAIR	WW (59)	433.2500	59	TV			DISC H	SAT
8	181.2500	8	TV		Y	WSYT	OFFAIR	XX (60)	439.2500	60	TV		Y	HGTV	SAT
9	187.2500	9	TV		Y	WIXT	OFFAIR	YY (61)	445.2500	61	TV		Y	SCIFI	SAT
10	193.2500	10	TV			N10N	STUDIO	ZZ (62)	451.2500	62	TV		Y	HIST	SAT
11	199.2500	11	TV		Y	WCNY	OFFAIR	63	457.2500	63	TV			TCM	SAT
12	205.2500	12	TV			WCNY11	STUDIO	64	463.2500	64	TV		Y	WE	SAT
13	211.2500	13	TV			SOURCE	LOCAL	65	469.2500	65	TV			LMN	SAT
J (23)	217.2500	23	TV		Y	CNNHLN	SAT	66	475.2500	66					
K (24)	223.2500	24	TV		Y	ESPN	SAT	67	481.2500	67	TV		Y	AMC	SAT
L (25)	229.2625	25	TV			ESPN2	SAT	68	487.2500	68	TV			FIT TV	SAT
M (26)	235.2625	26	TV			TWSP	LOCAL	69	493.2500	69	TV		Y	OXYGEN	SAT
N (27)	241.2625	27	TV		Y	CMT	SAT	70	499.2500	70	TV		Y	BRAVO	SAT
O (28)	247.2625	28	TV		Y	MTV	SAT	71	505.2500	71	TV		Y	DISNEY	SAT
P (29)	253.2625	29	TV		Y	VH-1	SAT	72	511.2500	72	TV			ESPNC	SAT
Q (30)	259.2625	30	TV		Y	LIFE	SAT	73	517.2500	73	TV			FSNY	SAT
R (31)	265.2625	31	TV		Y	USA	SAT	74	523.2500	74	TV		Y	UNIVIS	SAT
S (32)	271.2625	32	TV		Y	DISC	SAT	75	529.2500	75	TV			STYLE	SAT
T (33)	277.2625	33	TV		Y	A&E	SAT	76	535.2500	76	TV			LEASED	SAT
U (34)	283.2625	34	TV		Y	NICK	SAT	77	541.2500	77	TV		Y	E! TV	SAT
V (35)	289.2625	35	TV		Y	CSPAN	SAT	78	547.2500	78	TV		Y	SPIKE	SAT
W (36)	295.2625	36	TV		Y	CSPAN2	SAT	79	553.2500						
AA (37)	301.2625	37	TV		Y	CNBC	SAT	80	559.2500	80	TV		Y	VALUE	SAT
BB (38)	307.2625	38	TV		Y	MSNBC	SAT	81	565.2500						
CC (39)	313.2625	39	TV		Y	FOXN	SAT								

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TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Syracuse ***Date*** : 08/01/2006

Sub System Name : Syracuse-City

ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE	ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE
2	55.2500	2	TV			HBO	SAT	DD (40)	319.2625						
3	61.2500	3	TV		Y	WSPX	SAT	EE (41)	325.2625						
4	67.2500	4	TV		Y	WSTM	SAT	FF (42)	331.2750						
5	77.2500							GG (43)	337.2625						
6	83.2500							HH (44)	343.2625						
A-5 (95)	91.2500							II (45)	349.2625						
A-4 (96)	97.2500							JJ (46)	355.2625						
A-3 (97)	103.2500							KK (47)	361.2625						
A-2 (98)	109.2750							LL (48)	367.2625						
A-1 (99)	115.2750							MM (49)	373.2625						
A (14)	121.2625							NN (50)	379.2625						
B (15)	127.2625	15	TV			TVGUID	SAT	OO (51)	385.2625						
C (16)	133.2625							PP (52)	391.2625						
D (17)	139.2500							QQ (53)	397.2625						
E (18)	145.2500							RR (54)	403.2500						
F (19)	151.3210							SS (55)	409.2500						
G (20)	157.2500							TT (56)	415.2500						
H (21)	163.2500							UU (57)	421.2500						
I (22)	169.2500							VV (58)	427.2500						
7	175.2500							WW (59)	433.2500						
8	181.2500							XX (60)	439.2500						
9	187.2500							YY (61)	445.2500						
10	193.2500							ZZ (62)	451.2500						
11	199.2500							63	457.2500						
12	205.2500							64	463.2500						
13	211.2500							65	469.2500						
J (23)	217.2500							66	475.2500						
K (24)	223.2500							67	481.2500						
L (25)	229.2625							68	487.2500						
M (26)	235.2625							69	493.2500						
N (27)	241.2625							70	499.2500						
O (28)	247.2625							71	505.2500						
P (29)	253.2625							72	511.2500						
Q (30)	259.2625							73	517.2500						
R (31)	265.2625							74	523.2500						
S (32)	271.2625							75	529.2500						
T (33)	277.2625							76	535.2500						
U (34)	283.2625							77	541.2500						
V (35)	289.2625							78	547.2500						
W (36)	295.2625							79	553.2500						
AA (37)	301.2625							80	559.2500						
BB (38)	307.2625							81	565.2500						
CC (39)	313.2625														

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TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Syracuse ***Date*** : 08/01/2006

Sub System Name : Syracuse-Fulton

ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE	ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE
2	55.2500	2	TV			TVGUID	SAT	DD (40)	319.2625						
3	61.2500							EE (41)	325.2625						
4	67.2500							FF (42)	331.2750						
5	77.2500							GG (43)	337.2625						
6	83.2500	6	TV			HBO	SAT	HH (44)	343.2625						
A-5 (95)	91.2500							II (45)	349.2625						
A-4 (96)	97.2500	96	TV			P/A	LOCAL	JJ (46)	355.2625						
A-3 (97)	103.2500							KK (47)	361.2625						
A-2 (98)	109.2750							LL (48)	367.2625						
A-1 (99)	115.2750							MM (49)	373.2625						
A (14)	121.2625							NN (50)	379.2625						
B (15)	127.2625	15	TV			WSTQ	STUDIO	OO (51)	385.2625						
C (16)	133.2625							PP (52)	391.2625						
D (17)	139.2500							QQ (53)	397.2625						
E (18)	145.2500							RR (54)	403.2500						
F (19)	151.3210							SS (55)	409.2500						
G (20)	157.2500							TT (56)	415.2500						
H (21)	163.2500							UU (57)	421.2500						
I (22)	169.2500							VV (58)	427.2500						
7	175.2500							WW (59)	433.2500						
8	181.2500							XX (60)	439.2500						
9	187.2500							YY (61)	445.2500						
10	193.2500							ZZ (62)	451.2500						
11	199.2500							63	457.2500						
12	205.2500							64	463.2500						
13	211.2500							65	469.2500						
J (23)	217.2500							66	475.2500						
K (24)	223.2500							67	481.2500						
L (25)	229.2625							68	487.2500						
M (26)	235.2625							69	493.2500						
N (27)	241.2625							70	499.2500						
O (28)	247.2625							71	505.2500						
P (29)	253.2625							72	511.2500						
Q (30)	259.2625							73	517.2500						
R (31)	265.2625							74	523.2500						
S (32)	271.2625							75	529.2500						
T (33)	277.2625							76	535.2500						
U (34)	283.2625							77	541.2500						
V (35)	289.2625							78	547.2500						
W (36)	295.2625							79	553.2500						
AA (37)	301.2625							80	559.2500						
BB (38)	307.2625							81	565.2500						
CC (39)	313.2625														

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TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Syracuse ***Date*** : 08/01/2006

Sub System Name : Syracuse-Oswego

ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE	ACTUAL CHANNEL	CARRIER FREQ	CONV CH.	TYPE	SC ("Y")	VITS ("Y")	CALL LTR	PROG SOURCE
2	55.2500	2	TV			TVGUID	SAT	DD (40)	319.2625						
3	61.2500							EE (41)	325.2625						
4	67.2500							FF (42)	331.2750						
5	77.2500							GG (43)	337.2625						
6	83.2500							HH (44)	343.2625						
A-5 (95)	91.2500							II (45)	349.2625						
A-4 (96)	97.2500	96	TV			P/A	SAT	JJ (46)	355.2625						
A-3 (97)	103.2500							KK (47)	361.2625						
A-2 (98)	109.2750							LL (48)	367.2625						
A-1 (99)	115.2750							MM (49)	373.2625						
A (14)	121.2625	14	TV			WNPE	OFFAIR	NN (50)	379.2625						
B (15)	127.2625							OO (51)	385.2625						
C (16)	133.2625	16	TV			GOVED	STUDIO	PP (52)	391.2625						
D (17)	139.2500							QQ (53)	397.2625						
E (18)	145.2500							RR (54)	403.2500						
F (19)	151.3210							SS (55)	409.2500						
G (20)	157.2500							TT (56)	415.2500						
H (21)	163.2500							UU (57)	421.2500						
I (22)	169.2500							VV (58)	427.2500						
7	175.2500							WW (59)	433.2500						
8	181.2500							XX (60)	439.2500						
9	187.2500							YY (61)	445.2500						
10	193.2500							ZZ (62)	451.2500						
11	199.2500							63	457.2500						
12	205.2500							64	463.2500						
13	211.2500							65	469.2500						
J (23)	217.2500							66	475.2500						
K (24)	223.2500							67	481.2500						
L (25)	229.2625							68	487.2500						
M (26)	235.2625							69	493.2500						
N (27)	241.2625							70	499.2500						
O (28)	247.2625							71	505.2500						
P (29)	253.2625							72	511.2500						
Q (30)	259.2625							73	517.2500						
R (31)	265.2625							74	523.2500						
S (32)	271.2625							75	529.2500						
T (33)	277.2625							76	535.2500						
U (34)	283.2625							77	541.2500						
V (35)	289.2625							78	547.2500						
W (36)	295.2625							79	553.2500						
AA (37)	301.2625							80	559.2500						
BB (38)	307.2625							81	565.2500						
CC (39)	313.2625														

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TIME-WARNER CABLE - SYRACUSE DIVISION

System Name : Syracuse ***Date*** : 08/01/2006

Sub System : Syracuse-Suburbs

Non Video Services

CARRIER FREQ	DESCRIPTION	BANDWIDTH	PROG SOURCE
53	SST	+/-600KHz	DATA
73	QPSK	+/-600KHz	DATA
573	RR	+/-3MHz	DOCSIS

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TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Syracuse

Date : 08/01/006

Sub System : Syracuse-City

Non Video Services

CARRIER FREQ	DESCRIPTION	BANDWIDTH	PROG SOURCE
53	SST	+/-600KHz	DATA
72.75	QPSK	+/-600KHz	SA
573	RR	+/-3MHz	DOCSIS

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TIME WARNER CABLE - SYRACUSE DIVISION

System Name : Syracuse ***Date*** : 08/01/2006

Sub System : Syracuse-Ful/Osw

Non Video Services

CARRIER FREQ	DESCRIPTION	BANDWIDTH	PROG SOURCE
53	SST	+/-600KHz	DATA
111	QPSK	+/-600KHz	SA
573	RR	+/-3MHz	DOCSIS

MUX	QAM NAME	QAM FREQUENCY	ANALOG CHANNEL	MOD. TYPE	SESSION NUMBER	MPEG IN	MPEG OUT	BMR MPEG	SERVICE	QAM SOURCE	DIGITAL CHANNEL
	QAM1	567MHz	81	64	2	vpci 256		128	In-Band	1 Mbps	N/A
	18 sessions	BIG QAM			4	vpci 257		129	Cam IB	1 Mbps	
RT 1					6	vpci 258		130	IPG IB	1 Mbps	
					8	vpci 259		131	PPV IB	1 Mbps	
					10	vpci 260		132	IPG2 IB	1 Mbps	
					12	vpci 261		133	IPG3 IB	1 Mbps	
					14	vpci 262		134	IPG4 IB	1 Mbps	
					16	vpci 263		135	IPG5 IB	1 Mbps	
					18	vpci 264		136	IPG6 IB	1 Mbps	
					20	vpci 265		137	IPG7 IB	1 Mbps	
					22	vpci 266		138	PPV IB2	1 Mbps	
					222	vpci 267		139	VCS BFS source	.5 Mbps	
					4022	vpci 268		140	Saixod	2.0 Mbps	
					4024	vpci 269		141	Saixod_IB_LG	2.0 Mbps	
					4026	vpci 270		142	Saixod_IB_SM	2.0 Mbps	
					4028	vpci 271		143	BstIB	2.0 Mbps	
					4034	vpci 272		144	hgate	2.0 Mbps	
RT 2					4038				SDV	1 Mbps	
RT 1					199			145	OSM	3.0 Mbps	
	QAM2	591 MHz	85	256	1911	12	12	12	INDemand 1	AMC11 T3 BB 10-5 BB 9-12	401
AD	12 SD				1916	6	6	6	INDemand 2	AMC11 T3 BB 10-5 BB 9-12	402
SI		BMR 1			1913	3	3	3	INDemand 3	AMC11 T3 BB 10-5 BB 9-12	415
RT 1					1914	4	14	14	INDemand 4	AMC11 T3 BB 10-5 BB 9-12	416
RT 1					1915	5	5	15	INDemand 5	AMC11 T3 BB 10-5 BB 9-12	417
					1917	7	7	7	INDemand 6	AMC11 T3 BB 10-5 BB 9-12	418
					1918	10	10	10	INDemand 7	AMC11 T3 BB 10-5 BB 9-12	419
					3108	124	124	124	TEST 9	BB 7-7 BB 9-12	
					8028	125	125	5	CH996 - Info	BB 7-7 BB 9-12	996
					1117	1	11	11	ESPN News	G10T20 BB2-3 - BB9-12	107
					1218	3	8	8	GAC	AMC11 T20Q -RTE -BB3-7 - BB 9-12	141
					1116	4	4	4	Toon Disney	G10T20 BB2-3 - BB9-12	172
	QAM3	597 MHz	86	256	1300	1	1	1	HBO East	Galaxy 1 T23(I) BB 10-7 BB 3-14	300
AD	13 SD				1301	2	2	2	HBO Plus East	Galaxy 1 T23(I) BB 10-7 BB 3-14	302
SI	4 Music	BMR 2			1302	3	3	3	HBO Signature East	Galaxy 1 T23(I) BB 10-7 BB 3-14	304
RT 5					1303	4	4	4	HBO Family East	Galaxy 1 T23(I) BB 10-7 BB 3-14	306
RT1					1307	8	8	8	HBO Latino East	Galaxy 1 T23(I) BB 10-7 BB 3-14	312
					1310	21	21	21	Max East	Galaxy 1 T23(I) BB 10-7 BB 3-14	320
					1311	22	22	22	More Max East	Galaxy 1 T23(I) BB 10-7 BB 3-14	322
					1313	23	23	23	Action Max East	Galaxy 1 T23(I) BB 10-7 BB 3-14	326
					1370	7	7	7	WMAX East	Galaxy 1 T18(Q) BB 10-8 BB3-14	328
					1371	27	27	27	@MAX East	Galaxy 1 T18(Q) BB 10-8 BB3-14	329
					1372	44	44	44	5 StarMAX East	Galaxy 1 T18(Q) BB 10-8 BB3-14	330
					1373	30	30	30	OuterMAX East	Galaxy 1 T18(Q) BB 10-8 BB3-14	331
					3025	1	5	5	Daystar TV	IA 13 T20 BB 4-7 BB4-11	189
					1563	24	24	24	Hit List MUS19	G5 T10 BB 10-1 BB 3-14	719
					1565	25	25	25	80's MUS21	G5 T10 BB 10-1 BB 3-14	721
					1558	22	222	222	Power Rock MUS12	G5 T10 BB 10-1 BB 3-14	712
					1562	23	233	233	Soft Rock MUS18	G5 T10 BB 10-1 BB 3-14	718
	QAM4	603 MHz	87	256	1312	24	24	24	Thriller Max East	Galaxy 1 T18(Q) BB 10-8 BB 4-12	324
AD	13 SD				1305	26	26	26	HBO Zone East	Galaxy 1 T18(Q) BB 10-8 BB 4-12	310
SI	7 Music	BMR 2			1304	8	11	11	HBO Comedy East	Galaxy 1 T18(Q) BB 10-8 BB 4-12	308
RT 5					1113	7	7	7	Encore	Galaxy 1 T13 BB 10-5 BB 4-12	200
RT2					1201	8	8	8	Encore West	Galaxy 1 T13 BB 10-5 BB 4-12	201
					1206	9	9	9	WAM!	Galaxy 1 T13 BB 10-5 BB 4-12	207
					1330	1	1	1	Starz!	Galaxy 1 T13 BB 10-5 BB 4-12	380
					1357	2	2	2	Starz! West	Galaxy 1 T13 BB 10-5 BB 4-12	381
					1331	3	3	3	Starz!2	Galaxy 1 T13 BB 10-5 BB 4-12	382
					1332	4	4	4	Starz!4 Family	Galaxy 1 T13 BB 10-5 BB 4-12	384
					1333	6	6	6	Starz!5 Cinema	Galaxy 1 T13 BB 10-5 BB 4-12	386
					1358	10	10	10	Starz!5 Cinema West	Galaxy 1 T13 BB 10-5 BB 4-12	387
					1334	5	5	5	Bet Movies	Galaxy 1 T13 BB 10-5 BB 4-12	388
					1548	28	28	28	Today's Country MUS2	G5 T10 BB 10-1 BB 4-12	702
					1547	29	29	29	Classic Country MUS3	G5 T10 BB 10-1 BB 4-12	703
					1570	30	30	30	Big Band & Swing MUS26	G5 T10 BB 10-1 BB 4-12	726
					1569	31	31	31	Singers & Stds MUS25	G5 T10 BB 10-1 BB 4-12	725
					1571	32	32	32	Easy Listening MUS27	G5 T10 BB 10-1 BB 4-12	727
					1567	26	266	266	70's MUS23	G5 T10 BB 10-1 BB 4-12	723
					1566	27	27	27	Solid Gold Oldies MUS24	G5 T10 BB 10-1 BB 4-12	724
	QAM5	699 MHz	90	256	2088	1	1	1	[redacted]	AMC10 T14 BB4-8 BB4-11	820
AD	5 SD				10080	1	2	2	[redacted]	BB 8-1 BB 4-11	808
SI	2 HD	BMR 2			1554	18	18	18	Metal MUS10	G5 T10 BB 10-1 BB4-11	710
RT 1	8 Music				1558	19	19	19	Alternative MUS14	G5 T10 BB 10-1 BB4-11	714
RT 2					1561	20	20	20	Progressive MUS17	G5 T10 BB 10-1 BB4-11	717
					1557	21	21	21	Classic Rock MUS13	G5 T10 BB 10-1 BB4-11	713
					1551	14	141	141	Classic R&B MUS7	G5 T10 BB 10-1 BB4-11	707
					1550	15	15	15	R&B and Hip Hop MUS6	G5 T10 BB 10-1 BB4-11	706
					1560	16	16	16	Dance MUS16	G5 T10 BB 10-1 BB4-11	716
					9085	1	11	11	Legislative Ch	IP TO asl BB7-1 BB4-11	131
	Private Data/Teletext PID needs to be mapped on as AC3				9084	1	10	10	NY1	IP TO asl BB7-5 BB4-11	111
					1553	17	17	17	Rap MUS9	G5 T10 BB 10-1 BB4-11	709
AD	QAM6	705 MHz	91	256	9035	2	2	2	[redacted]	Galaxy 9 T19 BB9-3 BB7-11	811
SI	2 HD	BMR 1			9036	3	3	3	[redacted]	Galaxy 9 T19 BB9-3 BB7-11	812
RT 1	3 SD				1997	6	6	6	[redacted]	IA13 T15 BB2-6 BB7-11	491
RT 3					1998	3	7	7	[redacted]	IA13 T5 BB 10-2 BB7-11	496
					1065	8	8	8	Lifetime Real Women	G10 T20 BB 2-3 - BB 7-11	112

	QAM7	639 MHz	93 / 126	256	1382	11	11	11	HBO West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	301
	11 SD	807 Burlington RF1			1383	12	12	12	HBO Plus West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	303
	9 Music	BMR 2			1364	13	13	13	HBO Signature West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	305
					1365	14	14	14	HBO Family West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	307
T 3					1366	18	18	18	HBO Latino West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	313
					1367	31	31	31	Max West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	321
					1368	32	32	32	More Max West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	323
					1369	33	33	33	Action Max West	Galaxy 1 T23(Q) BB 10-6 BB 4-13	327
					1374	15	15	15	HBO Cmdy West	Galaxy 1 T23(Q) BB 10-3 BB 4-13	309
					1375	16	16	16	HBO Zone West	Galaxy 1 T23(Q) BB 10-3 BB 4-13	311
					1376	34	34	34	Thriller Max West	Galaxy 1 T23(Q) BB 10-3 BB 4-13	325
					1578	34	344	344	Light Classical MUS35	G5 T10 BB 10-1 BB 4-13	735
					1576	35	35	35	Soundscapes MUS32	G5 T10 BB 10-1 BB 4-13	732
					1572	36	36	36	Smooth Jazz MUS28	G5 T10 BB 10-1 BB 4-13	728
					1573	37	37	37	Jazz MUS29	G5 T10 BB 10-1 BB 4-13	729
					1574	38	38	38	Blues MUS30	G5 T10 BB 10-1 BB 4-13	730
					1582	39	39	39	Gospel MUS38	G5 T10 BB 10-1 BB 4-13	738
					1581	40	40	40	Contp Christian MUS37	G5 T10 BB 10-1 BB 4-13	737
					1585	41	41	41	Musica Latina MUS41	G5 T10 BB 10-1 BB 4-13	741
					1577	33	333	333	Classical Master MUS33	G5 T10 BB 10-1 BB 4-13	733
	QAM8	645 MHz	94 / 127	256	1202	1	1	1	Encore Action	Galaxy 1 T3 BB 9-7 BB 3-13	202
AD	13 SD	813 Burlington RF2			1203	3	3	3	Encore Love	Galaxy 1 T3 BB 9-7 BB 3-13	203
H	11 Music	BMR 2			1204	5	5	5	Encore Mystery	Galaxy 1 T3 BB 9-7 BB 3-13	204
T 3					1205	9	9	9	Encore Westerns	Galaxy 1 T3 BB 9-7 BB 3-13	205
T 1					1207	7	7	7	Encore True	Galaxy 1 T3 BB 9-7 BB 3-13	206
	City of Syracuse only				2099	1	11	11	Syr Fire Dept	BB 3-5 BB3-13	88
					1996	4	4	4	[redacted]	IA 13 T15 BB 3-8 BB 3-13	498
					2497	7	17	17	[redacted]	IA 13 T24 BB 3-8 BB 3-13	493
					2498	3	14	14	[redacted]	IA 13 T24 BB 3-2 BB 3-13	495
					2495	4	15	15	[redacted]	IA 13 T24 BB 3-2 BB 3-13	494
					1353	1	1	10	Showtime Next	AMC11 T19 BB 9-1 BB 8-11	345
					1355	3	3	13	Showtime Women	AMC11 T19 BB 9-1 BB 8-11	346
					1354	2	2	12	Showtime Family	AMC11 T19 BB 9-1 BB 8-11	347
					1591	51	51	51	Americana MUS 47	G5 T10 BB 10-1 BB 3-13	704
					1590	50	50	50	Mexicana MUS 46	G5 T10 BB 10-1 BB 3-13	478
					1583	11	111	111	For Kids Only MUS39	G5 T10 BB 10-1 BB 3-13	739
					1575	12	121	121	Raggae MUS31	G5 T10 BB 10-1 BB 3-13	731
					1552	13	131	131	Smooth R&B MUS6	G5 T10 BB 10-1 BB 3-13	708
					1545	5	55	55	Showcase MUS1	G5 T10 BB 10-1 BB 3-13	701
					1548	6	66	66	Bluegrass MUS4	G5 T10 BB 10-1 BB 3-13	704
					1559	7	77	77	Electronica MUS15	G5 T10 BB 10-1 BB 3-13	715
					1555	8	88	88	Rock MUS11	G5 T10 BB 10-1 BB 3-13	711
					1549	9	99	99	R&B Hip Hop MUS5	G5 T10 BB 10-1 BB 3-13	705
					1564	10	101	101	Snds of Season MUS40	G5 T10 BB 10-1 BB 3-13	740
	QAM9	657 MHz	101	256	9066	31	31	31	[redacted]	BB 4-3 BB 8-12	813
	8 SD				9037	300	300	300	[redacted]	G9 (Gal 10R) T23V BB 7-3 BB8-12	821
	2 HD	BMR 2			1948	3	9	9	Control Barker	AMC 10 T18 BB 9-2 BB8-12	N/A
					1947	2	37	37	PPV Barker	AMC 10 T18 BB 9-2 BB8-12	400
T 2					10059	4	4	4	TWC FOD Barker	AMC 10 T18 BB 9-2 BB8-12	N/A
	QAM10	747 / 663 MHz	102	256	1183	1	59	59	SLEUTH	G1RT24 - BB3-4 - BB2-11	152
AD	12 SD				1185	8	60	60	Current	G7T9 - BB9-7 - BB2-11	134
H					2106	212	54	54	FOX Sports World	G7/G11-T6V BB2-8 - BB2-11	106
T 3		BMR 1			1141	1	56	56	Bet on Jazz	G11T3 - BB2-1 - BB2-11	145
T 3					1150	3	57	57	Ovation	G11T13 - BB3-4 - BB2-11	150
					7777	2	255	255	AonD Looping Barker	Bbus 1/7 Path1 BB7-7 BB2-11	N/A
					1127	9	9	9	Fine Living	AMC11 T3 BB 10-5 BB9-12	159
					1180	3	3	3	CSPAN-3	G10T20 BB2-3 - BB9-12	133
					1217	1	1	1	TBN	C3T12 -RTE -BB3-6 - BB 2-11	190
					1182	2	58	58	Game Show Network	AMC11 T8 BB3-4 - BB2-11	182
					1351	1	53	53	Disney W	G1T7 - BB3-3 - BB2-11	171
					1106	1	2	2	Outdoor Channel	G10T24 - BB2-4 - BB2-11	105

	QAM11	669 MHz	103	256	1120	2	2	2	Discovery Kids	AMC11 T 22 BB 3-5 BB 8-13	120
	11 SD				1121	3	3	3	Discovery Science	AMC11 T 22 BB 3-5 BB 8-13	121
					1104	215	48	48	Speed Channel	G7/G11-T6V BB2-8 - BB8-13	103
		BMR 1			1122	7	4	4	Military Channel	AMC11 T 22 BB 3-5 BB 8-13	122
	1				1213	5	55	55	Discovery Civilizations	AMC11 T 22 BB 3-5 BB 8-13	124
					1212	4	54	54	Discovery Home & L.	AMC11 T 22 BB 3-5 BB 8-13	125
					1124	6	50	50	BBC America	AMC11 T 22 BB 3-5 BB 8-13	129
					2113	214	7	7	FUEL	G7/G11-T6V BB 2-8 BB 8-13	240
					1377	6	6	6	Sundance	BB 10-8 BB 8-13	115
					1350	1	1	1	[redacted]	BB 2-5 BB 8-13	1906
					5061	40	43	43	IFC	IA 13 T14V BB3-6 BB8-13	208
	QAM12	675 MHz	104	256	1341	7	7	7	TMC 2	AMC11 T19 BB 10-8 BB 9-11	351
AD	12 SD				1340	4	4	4	TMC	AMC11 T19 BB 10-8 BB 9-11	350
SI		BMR 1			1352	8	8	8	Showtime Beyond	AMC11 T19 BB 10-8 BB 9-11	344
T 5					1323	9	9	9	Showtime Extreme	AMC11 T19 BB 10-8 BB 9-11	343
T 3					1322	3	3	3	Showtime 3	AMC11 T19 BB 10-8 BB 9-11	342
					1321	2	2	2	Showtime Too	AMC11 T19 BB 10-8 BB 9-11	341
					1320	1	1	1	Showtime East	AMC11 T19 BB 10-8 BB 9-11	340
					1324	5	5	5	FLIX	AMC11 T19 BB 10-8 BB 9-11	18 W'twn
					1949	1	11	11	SOD ICONTROL Barker	C3 T18 BB 7-8 BB 9-11	N/A
					1190	50	50	50	Fuse	IA 13 T14V BB3-6 - BB 9-11	143
					1181	4	109	109	Bloomberg	AMC11 T6 BB3-1 - BB 9-11	135
					1112	7	45	45	FXM	G7/G11-T6V BB2-7 - BB 9-11	208
AD	[redacted]	[redacted]	121 / 110	256	1471	2	2	2	ESPN sports pkg 1	G9 (G10R) T21 BB7-8 BB7-13	472
SI	[redacted]	[redacted]			1472	3	3	3	ESPN sports pkg 2	G9 (G10R) T21 BB7-8 BB7-13	473
T 14		BMR 2			1473	4	4	4	ESPN sports pkg 3	G9 (G10R) T21 BB7-8 BB7-13	474
T 1					1474	5	5	5	ESPN sports pkg 4	G9 (G10R) T21 BB7-8 BB7-13	475
					1475	6	6	6	ESPN sports pkg 5	G9 (G10R) T21 BB7-8 BB7-13	476
					1477	8	8	8	ESPN sports pkg 8	G9 (G10R) T21 BB7-8 BB7-13	477
	[redacted]	[redacted]	120 / 111	256	9001	1	1	1	NHL / MLB 1	GE 1 T13 BB 9-5 BB 9-11	480
AD	[redacted]	[redacted]			9002	2	2	2	NHL / MLB 2	GE 1 T13 BB 9-5 BB 9-11	481
SI	8 Music	BMR2			9003	3	3	3	NHL / MLB 3	GE 1 T13 BB 9-5 BB 9-11	482
T 2					9004	4	4	4	NHL / MLB 4	GE 1 T13 BB 9-5 BB 9-11	483
T 2					9005	5	5	5	NHL / MLB 5	GE 1 T13 BB 9-5 BB 9-11	484
					9006	6	6	6	NHL / MLB 6	GE 1 T13 BB 9-5 BB 9-11	485
					9007	7	7	7	NHL / MLB 7	GE 1 T13 BB 9-5 BB 9-11	486
					9008	8	8	8	NHL / MLB 8	GE 1 T13 BB 9-5 BB 9-11	487
					9009	9	9	9	NHL / MLB 9	GE 1 T13 BB 9-5 BB 9-11	488
					9010	10	10	10	NHL / MLB 10	GE 1 T13 BB 9-5 BB9-11	489
					1951	40	40	40	HOD Barker	G9 (G10R) T21 BB 9-4 BB 9-11	n/a
					1586	43	43	43	Mexicana	G5 T10 BB 10-1 BB 9-11	745
					1588	44	44	44	Latin Love Songs	G5 T10 BB 10-1 BB 9-11	744
					1584	45	45	45	Party Favorites	G5 T10 BB 10-1 BB 9-11	720
					1580	46	46	46	Show Tunes	G5 T10 BB 10-1 BB 9-11	736
					1578	47	47	47	Opera	G5 T10 BB 10-1 BB 9-11	734
					1586	48	48	48	New Wave	G5 T10 BB 10-1 BB 9-11	722
					1587	49	49	49	Rock en Espanol	G5 T10 BB 10-1 BB 9-11	743
					1586	42	42	42	Salsa Merengue	G5 T10 BB 10-1 BB 9-11	742
	QAM15	735 MHz	114	256	1359	8	8	8	Starz12 West	G5 T12 BB10-4 BB3-12	363
AD	10 SD				1381	8	8	8	Starz14 Family West	G5 T12 BB10-4 BB3-12	365
17	1 Data	BMR 1			1126	20	20	20	Biography	IA 13 T14V BB3-6 BB3-12	130
T1					1125	30	30	30	History Int	IA 13 T14V BB3-6 BB3-12	127
					3201	3	3	3	Fox Sports Central	G7/G11-T6V BB2-7 BB3-12	236
					3203	213	213	213	Fox Sports Espanol	G7/G11-T6V BB2-8 BB3-12	238
					3202	4	4	4	Fox Sports Pacific	G7/G11-T6V BB2-7 BB3-12	237
					3200	2	2	2	Fox Sports Atlantic	G7/G11-T6V BB2-7 BB3-12	235
					1360	7	7	7	Bet Movies West	G5 T12 BB10-4 BB3-12	369
					4036	1	1	1	Navic Info Services	BB9-6 BB3-12	
					9050	2224	9	9	HERE I TV	IA13 T15 BB3-6 BB3-12	380

AD	QAM16	741MHz	115	256	2114	12	12	12	College Sports TV	G1R T22 BB4-5 BB8-11	242
	2 HD	BMR 2			1378	3	4	4	Goodlife	G1R T22 BB4-5 BB8-11	119
	3 SD				2112	7	7	7	NBA TV	BB 4-4 BB 8-11	241
					1308	51	51	51	[illegible]	G9 (G10R) T21 BB 9-4 BB 8-11	800
					1358	8	8	8	[illegible]	AMC10 T20 BB 7-4 BB 8-11	801
	QAM17	633 MHz	92	256	1206	4	1	1	VH1 Classic	AMC11 T15 BB10-3 BB3-11	144
AD	12 SD				1209	8	2	2	Nick GAS	AMC11 T15 BB10-3 BB3-11	175
SI		BMR1			1210	10	3	3	Nick Too	AMC11 T15 BB10-3 BB3-11	174
T 7					9048	51	11	11	Galavision	BB4-7 BB3-11	622
RT 2					1214	5	8	8	Boomerang	Galaxy 1R T15 BB7-4 BB3-11	176
					1215	70	10	10	Do-It-Yourself	IA 13 T14V BB3-6 BB3-11	138
					1216	60	9	9	Tech TV	IA 13 T14V BB3-6 BB3-11	137
					1225	9	6	6	Nick Toons	AMC11 T15 BB10-3 BB3-11	177
					1163	4	14	14	America's Store	G1T24 - BB3-4 - BB3-11	163
					1162	1	5	5	MTV2	C8T15 BB10-3 BB3-11	142
					1164	7	7	7	Noggin	C3T15 BB10-3 BB3-11	173
					1221	80	80	80	CNBC World	IA 13 T14V BB3-6 BB3-11	136
	[illegible]	[illegible]	119 / 116	256	3103	1	4	4	IMC Concerts – RTE	G5 T12 BB8-1 - BB3-14	254
AD	[illegible]	[illegible]			9031	1	5	5	Weather Now	BB8-3 - BB3-14	210
SI		BMR 1			7778	126	254	254	AOLMU looping Barker	8bus1/7 Path1 BB7-7 BB3-14	
T 15					1600	1	11	11	NBA Preview Ch	GE 1 T14 BB 7-4 BB 3-14	460
RT 2					1601	3	13	13	NBA / WNBA PPV 1	GE 1 T14 BB 7-4 BB 3-14	461
					1602	5	15	15	NBA / WNBA PPV 2	GE 1 T14 BB 7-4 BB 3-14	462
					1603	7	17	17	NBA / WNBA PPV 3	GE 1 T14 BB 7-4 BB 3-14	463
					1604	9	19	19	NBA / WNBA PPV 4	GE 1 T14 BB 7-4 BB 3-14	464
					1605	11	111	111	NBA / WNBA PPV 5	GE 1 T14 BB 7-4 BB 3-14	465
					1606	13	113	113	NBA / WNBA PPV 6	GE 1 T14 BB 7-4 BB 3-14	466
					1607	15	115	115	NBA / WNBA PPV 7	GE 1 T14 BB 7-4 BB 3-14	467
					1608	17	117	117	NBA / WNBA PPV 8	GE 1 T14 BB 7-4 BB 3-14	468
					1609	19	119	119	NBA / WNBA PPV 9	GE 1 T14 BB 7-4 BB 3-14	469
AD	QAM19	693MHz	107		2085	3	1	1	WCNY	BB 9-6 BB 7-14	850
SI	2 HD	BMR1			2086	4	2	2	UWCNY KIDS	BB 9-6 BB 7-14	851
	3 SD				2087	5	3	3	WCNY YOU	BB 9-6 BB 7-14	852
T 14					2083	6	6	6	[illegible]	BB 9-6 BB 7-14	853
RT 2					7003	3	4	4	[illegible]	BB 9-5 BB 7-14	855
AD	QAM20	687 Mhz	106		1005	2	2	2	[illegible]	BB 7-5 BB 7-12	863
SI	2 HD	BMR1			7001	2	3	3	[illegible]	BB9-1 BB 7-12	889
T 4	2 SD				9046	6	6	6	The Tube	BB 7-5 BB 7-12	864
RT 3					9047	5	5	5	Weather Plus	BB 7-5 BB 7-12	133
T 4	QAM23	729MHz	113		9033	1	1	1	[illegible]	AMC10 T7	815
RT 2	2 HD				9034	2	2	2	[illegible]	AMC10 T7	816
T 2	QAM24	723MHz	112		9036	1	1	1	[illegible]	BB4-5 BB7-13	810
RT 3	2 HD	BMR 1			9039			2	[illegible]	BB4-6 BB7-13	809
					1219	6	6	6	Nat Geo	BB2-7 BB7-13	126
	1 HD	651 Ilion	100		7036	3	3	3	[illegible]	BB 3-1 BB 3-13	875
	2 HD	579 Potsdam and	83		7004	2	3	3	[illegible]	BB 3-2 BB 3-11	869
RT 1		Watertown			7002	4	2	2	[illegible]	BB 3-1 BB 3-11	875
AD	[illegible]	[illegible]	122 / 84		3101			37	test barker		280
SI	[illegible]	[illegible]			3222	8	8	8	SBN - Saigon	G11 T24Q BB8-5 BB9-13	872
T 14	10 SD	BMR1			3220	3	3	3	CCTV-4- Chinese	G11 T24Q BB8-5 BB9-13	685
RT 3					3216	5	5	5	RTN - Russian	G11 T24I BB7-3 BB9-13	858
					3215	7	7	7	TV5 - French	G11 T24I BB7-3 BB9-13	853
					3219	12	12	12	Zee TV - Hindi	IA13 T12 BB6-7 BB9-13	863
					3217	13	13	13	RAI - Italian	G11 T24I BB7-3 BB9-13	859
					3223	14	14	14	ART -Arabic	G11 T24I BB7-3 BB9-13	675
					3225	1	2	2	[illegible]	BB 9-2 BB9-13	1901
					1161	1	1	1	[illegible]	BB 9-2 BB9-13	1908
AD	[illegible]	[illegible]	117 / 105	256	3211	26	2	2	Mun 2 - Spanish	AMC11 T20I BB7-2 BB2-12	614
SI	[illegible]	[illegible]			9049	48	15	15	Telefutura	BB7-1 BB2-12	624
T 15	12 SD	BMR1			3204	7	6	6	Tennis	IA13 T15 BB2-6 BB2-12	239
RT 3					3208	9	9	9	Disc Espanol	AMC11 T22 BB3-5 BB2-12	608
					3210	3	10	10	MTV Espanol	AMC11 T15 BB10-3 BB2-12	612
					3209	7	11	11	VH Uno	Satcom C3 T15 BB8-4 BB2-12	610
					3206	1111	1	1	Sopressa	IA13 T18 BB8-8 BB2-12	602
					3207	3	18	18	CNN Espanol	G1 T15 BB7-4 BB2-12	604
					3213	4	5	5	Video Rola	IA13 T12 BB8-7 BB 2-12	618
					3212	9	19	19	Puma	IA13 T6 BB8-6 BB2-12	616
					3205	3	3	3	Cine Latino	IA13 T12 BB8-6 BB2-12	600
					3214	4	4	4	LaFamilia	IA13 T6BB8-6 BB2-12	620

Open Freq's 585, 681, 711, 717 and 747

[illegible]

QAM Name	Qam Frequency	Session ID	MPEG OUT	BMR MPEG	SERVICE	Channel Number
[redacted]				225 MHz		
		00:00:00:00:00:00 9051		program 1	TBS	17
		00:00:00:00:00:00 9052		program 2	TNT	45
		00:00:00:00:00:00 9053		program 3	SPIKE TV	78
		00:00:00:00:00:00 9054		program 4	VH-1	29
		00:00:00:00:00:00 9055		program 5	HISTORY	62
		00:00:00:00:00:00 9056		program 6	SNY	54
		00:00:00:00:00:00 9057		program 7	ABC FAM	20
		00:00:00:00:00:00 9058		program 8	ANIMAL PLANET	18
		00:00:00:00:00:00 9059		program 9	HALLMARK	43
		00:00:00:00:00:00 9060		program 10	HDLN	23
		00:00:00:00:00:00 9061		program 11	TRAVEL	41
		00:00:00:00:00:00 9062		program 12	WE	64
		00:00:00:00:00:00 9063		[redacted]		
[redacted]				225 MHz		
		00:00:00:00:00:00 9068		program 1	ESPN-C	72
		00:00:00:00:00:00 9069		program 2	[redacted]	26
		00:00:00:00:00:00 9070		program 3	SCI-FI	61
		00:00:00:00:00:00 9071		program 4	AMC	67
		00:00:00:00:00:00 9072		program 5	GOLF	57
		00:00:00:00:00:00 9073		program 6	NICK	34
		00:00:00:00:00:00 9074		program 7	A&E	33
		00:00:00:00:00:00 9075		program 8	CNBC	37
		00:00:00:00:00:00 9076		program 9	FOX NEWS	39
		00:00:00:00:00:00 9077		program 10	HGTV	60
		00:00:00:00:00:00 9078		program 11	SOAPNET	58
		00:00:00:00:00:00 9088		program 12	FOOD	46
[redacted]				225 MHz		
		00:00:00:00:00:00 9080		program 1	ESPN2	25
		00:00:00:00:00:00 9081		program 2	YES	53
		00:00:00:00:00:00 9082		program 3	MTV	28
		00:00:00:00:00:00 9083		program 4	BET	48
		00:00:00:00:00:00 9084		program 5	DISC	32
		00:00:00:00:00:00 9085		program 6	OLN	55
		00:00:00:00:00:00 9086		program 7	USA	31
		00:00:00:00:00:00 9087		program 8	CNN	22
		00:00:00:00:00:00 9079		program 9	COURT TV	52
		00:00:00:00:00:00 9099		program 10	LIFETIME	30
		00:00:00:00:00:00 10000		program 11	OXYGEN	69
		00:00:00:00:00:00 10001		program 12	MSNBC	38
[redacted]				225 MHz		
		00:00:00:00:00:00 10004		program 1	ESPN	24
		00:00:00:00:00:00 10005		program 2	CMT	27
		00:00:00:00:00:00 10006		program 3	FX	21
		00:00:00:00:00:00 10007		program 4	BRAVO	70
		00:00:00:00:00:00 10008		program 5	CARTOON	51
		00:00:00:00:00:00 10009		program 6	TV LAND	47
		00:00:00:00:00:00 10011		[redacted]		50
		00:00:00:00:00:00 10012		[redacted]		77
		00:00:00:00:00:00 10013		[redacted]		65
		00:00:00:00:00:00 10014		[redacted]		10
		00:00:00:00:00:00 10015		program 12	TLC	49
		00:00:00:00:00:00 10010		[redacted]		40
[redacted]				225 MHz		
		00:00:00:00:00:00 10016		program 1	[redacted]	
		00:00:00:00:00:00 10017		program 2	[redacted]	
		00:00:00:00:00:00 10018		program 3	[redacted]	
		00:00:00:00:00:00 10019		program 4	[redacted]	
		00:00:00:00:00:00 10020		program 5	[redacted]	
		00:00:00:00:00:00 10021		program 6	[redacted]	
		00:00:00:00:00:00 10022		program 7	[redacted]	
		00:00:00:00:00:00 10023		program 8	[redacted]	
		00:00:00:00:00:00 10024		program 9	[redacted]	
		00:00:00:00:00:00 10049		program 10	[redacted]	
		00:00:00:00:00:00 10025		program 11	DISCOVERY HEALTH	59
		00:00:00:00:00:00 10026		program 12	BTN HD	75
				passing traffic	225 MHz	
				passing traffic	225 MHz	

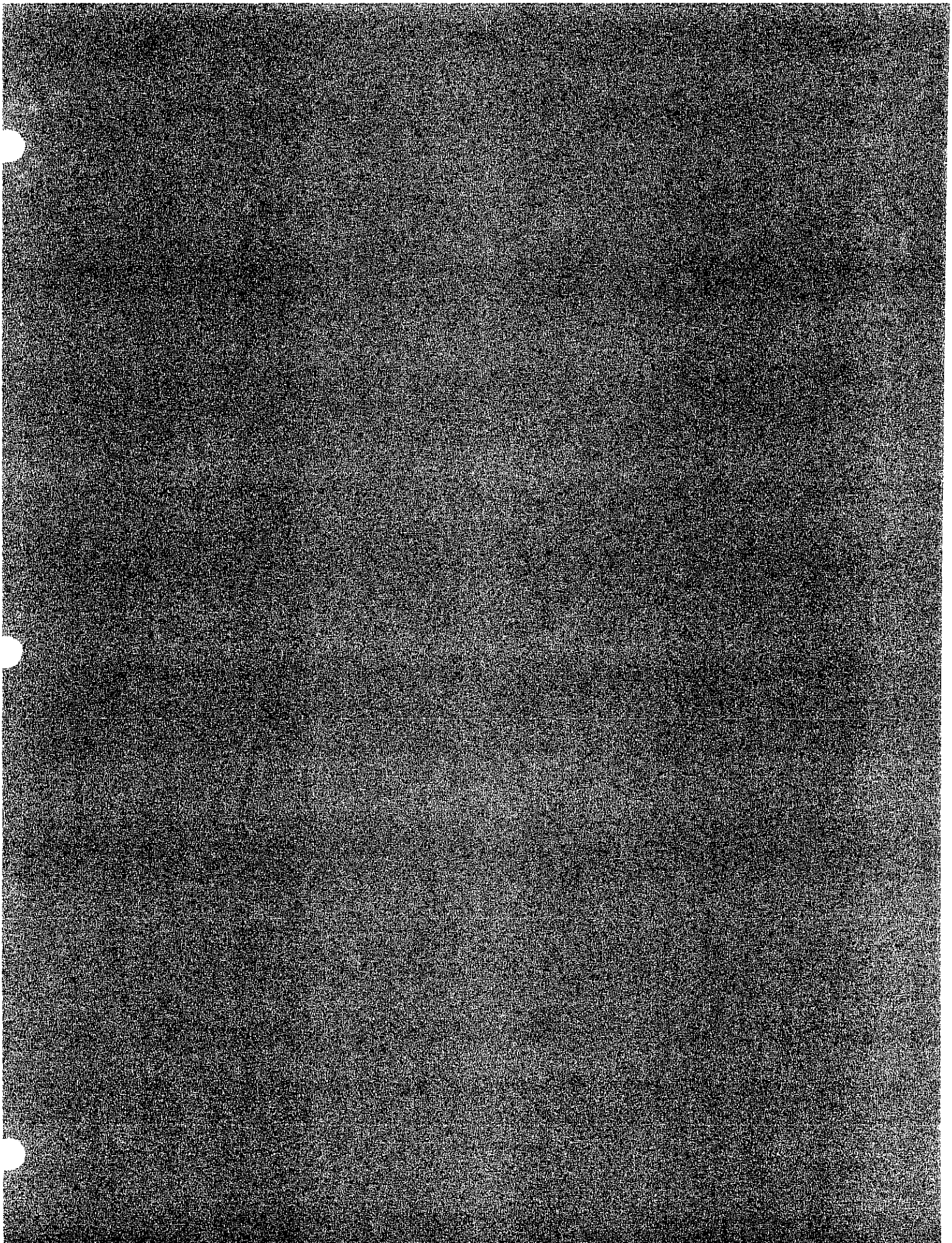
QAM Nam	Qam Frequency	Session ID	MPEG OUT	BMR MPEG
[illegible]	[illegible]			[illegible]
		00:00:00:00:00:03 9051		program 1
		00:00:00:00:00:03 9052		program 2
		00:00:00:00:00:03 9053		program 3
		00:00:00:00:00:03 9054		program 4
		00:00:00:00:00:03 9055		program 5
		00:00:00:00:00:03 9056		program 6
		00:00:00:00:00:03 9057		program 7
		00:00:00:00:00:03 9058		program 8
		00:00:00:00:00:03 9059		program 9
		00:00:00:00:00:03 9060		program 10
		00:00:00:00:00:03 9061		program 11
		00:00:00:00:00:03 9062		program 12
[illegible]	[illegible]			
		00:00:00:00:00:03 9068		ESPN-C
		00:00:00:00:00:03 9069		[illegible]
		00:00:00:00:00:03 9070		SCI-FI
		00:00:00:00:00:03 9071		AMC
		00:00:00:00:00:03 9072		GOLF
		00:00:00:00:00:03 9073		NICK
		00:00:00:00:00:03 9074		A&E
		00:00:00:00:00:03 9075		CNBC
		00:00:00:00:00:03 9076		FOX NEWS
		00:00:00:00:00:03 9077		HGTV
		00:00:00:00:00:03 9078		SOAPNET
		00:00:00:00:00:03 9088		FOOD
[illegible]	[illegible]			
		00:00:00:00:00:03 9080		ESPN2
		00:00:00:00:00:03 9081		YES
		00:00:00:00:00:03 9082		MTV
		00:00:00:00:00:03 9083		BET
		00:00:00:00:00:03 9084		DISC
		00:00:00:00:00:03 9085		OLN
		00:00:00:00:00:03 9086		USA
		00:00:00:00:00:03 9087		CNN
		00:00:00:00:00:03 9079		COURT TV
		00:00:00:00:00:03 9099		LIFETIME
		00:00:00:00:00:03 10000		OXYGEN
		00:00:00:00:00:03 10001		MSNBC
[illegible]	[illegible]			
		00:00:00:00:00:03 10004		ESPN
		00:00:00:00:00:03 10005		CMT
		00:00:00:00:00:03 10006		FX
		00:00:00:00:00:03 10007		BRAVO
		00:00:00:00:00:03 10008		CARTOON
		00:00:00:00:00:03 10009		TV LAND
		00:00:00:00:00:03 10011		[illegible]
		00:00:00:00:00:03 10012		[illegible]
		00:00:00:00:00:03 10013		[illegible]
		00:00:00:00:00:03 10014		[illegible]

	00:00:00:00:00:03 10015		TLC
	00:00:00:00:00:03 10010		[redacted]
[redacted]			
	00:00:00:00:00:03 10016		[redacted]
	00:00:00:00:00:03 10017		[redacted]
	00:00:00:00:00:03 10018		[redacted]
	00:00:00:00:00:03 10019		[redacted]
	00:00:00:00:00:03 10020		[redacted]
	00:00:00:00:00:03 10021		[redacted]
	00:00:00:00:00:03 10022		[redacted]
	00:00:00:00:00:03 10023		[redacted]
	00:00:00:00:00:03 10024		[redacted]
	00:00:00:00:00:03 10049		[redacted]
	00:00:00:00:00:03 10025		[redacted]
	00:00:00:00:00:03 10026		[redacted]

TIME WARNER CABLE- *SYRACUSE DIVSION*

Digital MQAM Frequencies

609 MHZ
615 MHz
621 MHz
627 MHz
These are for I-Control services.



PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION

Statement of Qualifications

System Name : Syracuse

Employee Name : Don Palmer

Title : Headend Technician

System : Syracuse

Qualifications :

Total years of services- 12 1/2
Service Technician- 9 years
Maintenance Technician- 1 years
Headend Technician- 1 1/2 years

Employee Name : Benny LaRocca

Title : Senior Network Technician

System : Syracuse

Qualifications :

Senior Network Technician- 6 1/2 years
Service Technician- 10 years
Technology and Communications Schooling

Employee Name : Rich Wilmot

Title : Headend Technician

System : Syracuse

Qualifications :

Total years of service- 4
Service Technician- 3 1/2 years
Headend- 1/2 Years

PAGE 5

TIME WARNER CABLE - SYRACUSE DIVISION

Statement of Qualifications

System Name : Syracuse

Employee Name : Don Singleton

Title : Maintenance Technician

System : Syracuse

Qualifications :

Total years of service- 22
installer- 4
service- 11
Maintenance- 6

Employee Name : Melvin Johnson

Title : Maintenance Technician

System : Syracuse

Qualifications :

Total years of service- 25
installer- 2 years
Service- 2 years
Maintenance- 21 years

Employee Name : Neil Rader

Title : Maintenance Technician

System : Syracuse

Qualifications :

Total years of service- 12 1/2
Installer- 4
Service Technician- 4
Maintenance Technician- 4 1/2

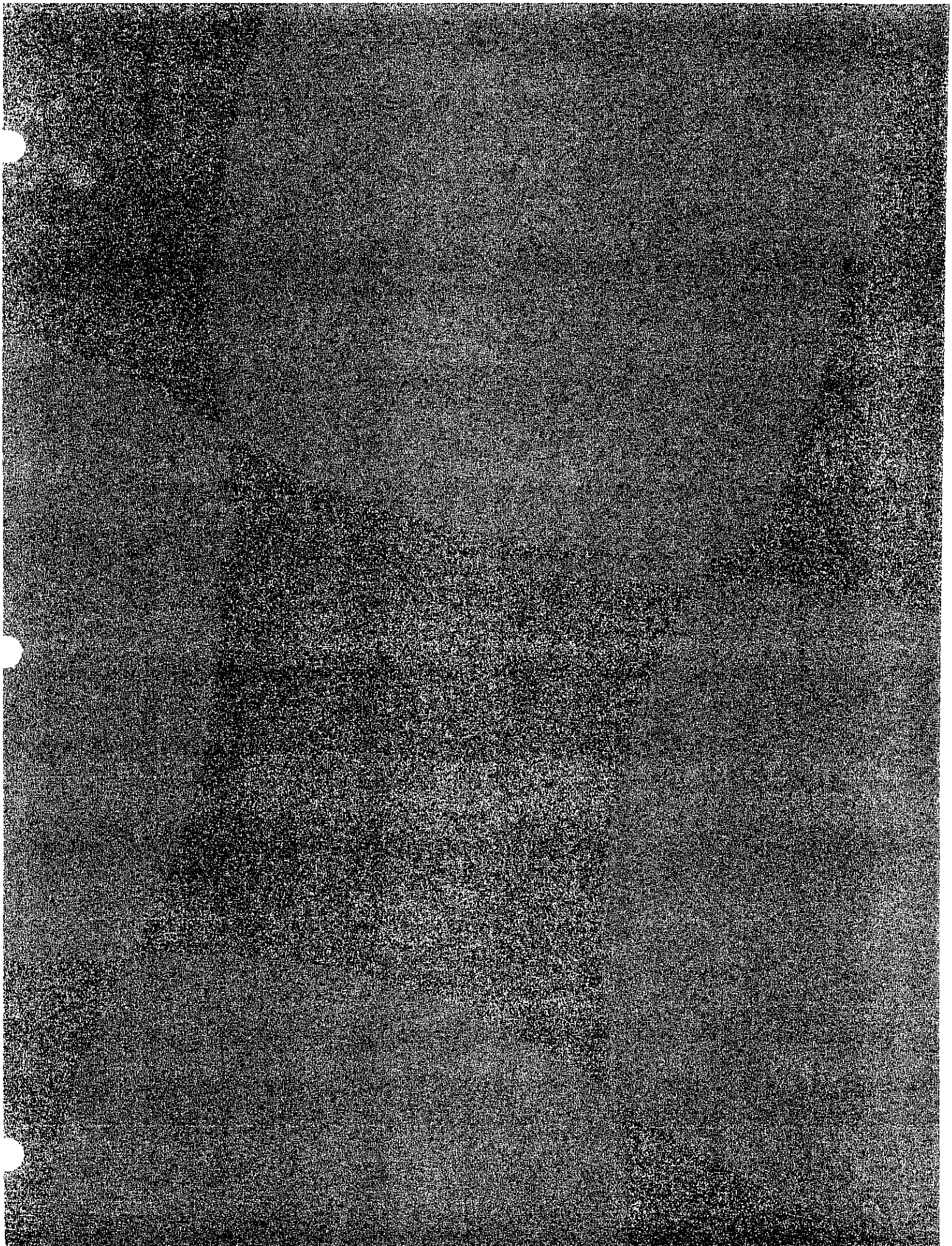
PAGE 6

TIME WARNER CABLE - SYRACUSE DIVISION

Test Equipment Listings

System Name : Syracuse ***Date*** : 08/01/2006

	Test Equipment			
EQUIPMENT DESCRIPTION	MODEL NUMBER	MANUFACTURER	SERIAL NUMBER	LAST CALIB
DSP	860i	Trilithic	223241	2004
DSP	860i	Trilithic	221899	2004
Preselector	n/a	Trilithic	F005120	n/a
Spectrum	8591C	HP	3649A01838	2006
Amp	LHA35RM	Lindsay	S104037	n/a
TSC	TSG95	Textronix	B028684	2006
DSP	860i	Trilithic	223239	2004



PAGE 7

TIME WARNER CABLE - SYRACUSE DIVISION

Terminal Isolation Test

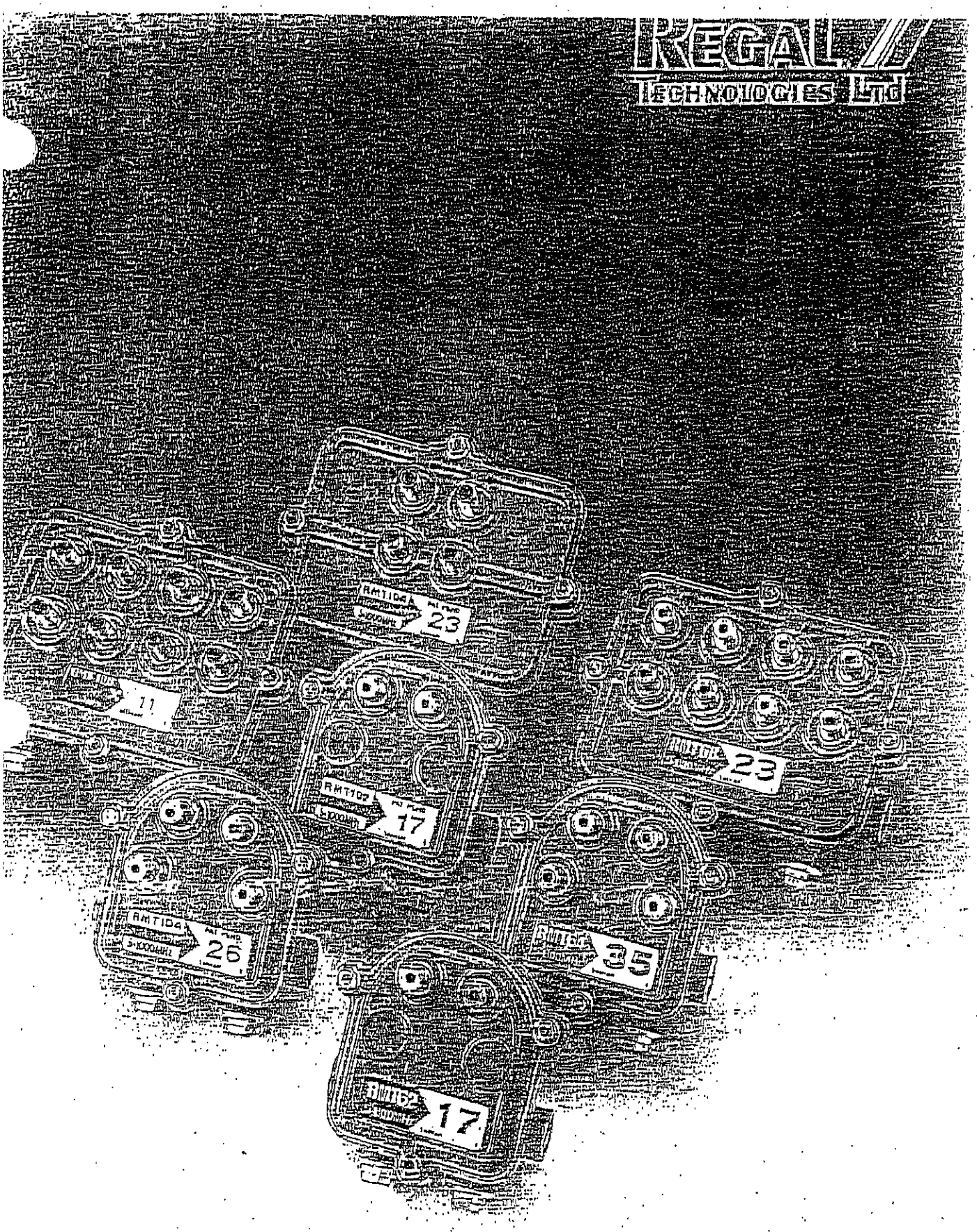
System Name : Syracuse ***Date*** : 08/01/2006

The terminal isolation provided to each subscriber terminal shall not be less than 18 decibels. In lieu of periodic testing, the cable operator may use specifications provided by the manufacturer for the terminal isolation equipment to meet this standard.

Instructions:

Attach a copy of the manufacturer's specifications covering all directional taps used in the system. The specification sheet must show the minimum tap-to-tap isolation. In lieu of a specification sheet, attach a letter from the manufacturer(s) certifying that the directional taps used in the system do exhibit a minimum tap-to-tap isolation of 18dB.

REGAL//
TECHNOLOGIES LTD



Line Passives

Hz, 100dB EMI
10, RLDC10, RPI10 Series

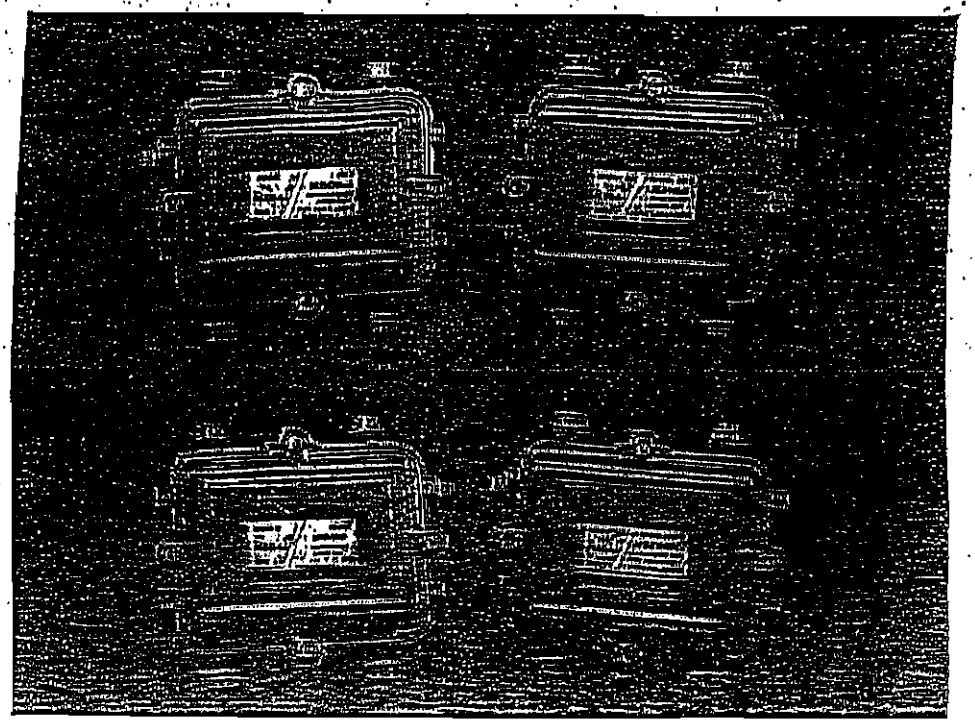
cognized as the industry
1 GHz passive develop-
gal now offers a full line
line passives to comple-
RMT10 series of 1 GHz
al line passives feature
components to sustain
grity and ensure high
characteristics. The
d groove keyed housing
h woven menallic gasket
signal ingress and egress.
ne weather gasket within
and groove channel
s a watertight assembly.
d power path makes
gnostics more efficient
ate. 360 alloy aluminum
vith double polyurethane
years of corrosion
eration.

ation

rging trends such as dig-
fiber optic deployment,
on demand and digital
on require increased
. To meet the demands
chnologies, RLS10 two
-way splitters, RLDC10
l couplers and RPI-100
erters feature unequaled
ce to 1 GHz and long
rability.

de Options

Hz line passives may be
to include surge protec-
Hz faceplates, with or
rge protection, may be
in any existing 600 MHz
passive.



RLDC10-8, RLS10-3 (top); RPI-100, RLS10-2SP (bottom)

Features:

- Glass epoxy printed circuit board with premium components for superior RF performance
- Interlocking tongue and groove faceplate/housing design provides exceptional EMI isolation
- 360 alloy aluminum housing with double polyurethane coating resists corrosion and increases product life
- Printed power routing path to aid in system diagnostics
- Interchangeable faceplates among all 600 MHz and 1 GHz passives

Performance and Reliability

- 1 GHz bandwidth with low loss characteristics
- 100dB minimum EMI isolation

Installation ease

- 1/2" long entry ports allow for greater heatshrink overlap
- Field replaceable fuse clips
- Cast-in strip gauge for proper center conductor trim length
- Captive hardware prevents accidental loss during installs
- Keyed housing for proper assembly
- Circuit board comes mounted on faceplate but may be changed to housing to eliminate outages during diagnostics

Mechanical Integrity

- Stainless steel hardware resists corrosion
- Non-rotational seizing mechanism with one seizure screw per port for aerial/underground

Taps

Hz, 100dB EMI
10 Series - Two-port

nal performance specifications

RMT102-	4.0	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
nap value (dB)											
5 - 10 MHz	3.40	7.20	10.34	14.60	16.50	20.60	22.30	25.60	28.50	31.60	34.70
10 - 50 MHz	3.40	7.20	10.70	14.60	16.50	20.60	22.60	25.70	28.50	31.60	34.70
50 - 100 MHz	3.40	7.20	10.78	14.60	16.50	20.60	22.60	25.70	28.60	31.70	34.80
100 - 200 MHz	3.50	7.20	10.82	14.50	16.50	20.60	22.60	25.70	28.60	31.70	34.90
200 - 300 MHz	3.50	7.20	10.78	14.40	16.50	20.60	22.60	25.80	28.70	31.90	35.20
300 - 400 MHz	3.60	7.20	10.70	14.20	16.60	20.60	22.60	25.90	28.90	32.30	35.30
400 - 500 MHz	3.50	7.40	10.68	14.20	16.70	21.80	22.60	26.10	28.90	32.60	35.70
500 - 600 MHz	3.60	7.40	10.74	13.80	16.70	21.00	22.90	26.10	29.10	32.60	35.70
600 - 700 MHz	3.70	7.60	10.72	13.60	16.80	21.10	22.90	26.00	29.10	32.60	35.60
700 - 800 MHz	3.80	7.60	10.76	13.20	16.80	21.20	22.80	25.80	28.90	32.50	35.50
800 - 900 MHz	3.80	7.90	10.80	12.80	16.80	21.10	23.00	25.50	28.60	32.50	35.50
900 - 1000 MHz	4.20	8.60	11.24	13.00	17.30	21.40	23.80	25.50	28.60	32.40	35.40
insertion loss). (dB)											
5 - 10 MHz	T	3.38	1.57	1.01	0.72	0.43	0.44	0.51	0.43	0.46	0.42
10 - 50 MHz	T	3.36	1.42	0.90	0.68	0.36	0.36	0.42	0.36	0.40	0.40
50 - 100 MHz	T	3.35	1.46	0.90	0.67	0.36	0.36	0.47	0.38	0.42	0.42
100 - 200 MHz	T	3.46	1.50	0.92	0.68	0.40	0.40	0.50	0.40	0.44	0.44
200 - 300 MHz	T	3.52	1.57	0.97	0.71	0.44	0.42	0.55	0.45	0.48	0.48
300 - 400 MHz	T	3.59	1.62	1.10	0.71	0.42	0.43	0.53	0.47	0.49	0.49
400 - 500 MHz	T	3.78	1.78	1.29	0.96	0.65	0.70	0.79	0.68	0.74	0.77
500 - 600 MHz	T	4.00	1.95	1.31	0.90	0.81	0.68	0.85	0.71	0.68	0.67
600 - 700 MHz	T	4.30	2.28	1.52	1.25	1.11	1.57	1.05	0.72	0.80	0.82
700 - 800 MHz	T	4.33	2.46	2.00	1.53	1.38	1.30	1.25	1.18	1.25	1.18
800 - 900 MHz	T	4.35	2.60	2.15	1.35	1.35	1.15	1.18	1.05	1.10	1.13
900 - 1000 MHz	T	4.52	3.00	2.51	1.51	1.41	1.11	1.22	1.08	1.16	1.06

Taps

Hz, 100dB EMI
10 Series - Four-port

inal performance specifications

RMT104	8.0	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
tap value (dB)										
5 - 10 MHz	7.00	10.40	13.40	17.60	20.20	23.10	25.50	28.50	31.40	34.50
10 - 50 MHz	6.90	10.20	14.00	17.70	20.20	23.10	25.60	28.60	31.40	34.50
50 - 100 MHz	6.90	10.20	14.00	17.70	20.20	23.10	25.60	28.75	31.56	34.68
100 - 200 MHz	6.90	10.20	14.00	17.70	20.50	23.20	25.70	29.06	31.68	34.86
200 - 300 MHz	6.90	10.20	14.10	17.40	20.40	23.30	25.90	29.13	31.75	34.88
300 - 400 MHz	6.90	10.20	14.10	17.10	20.40	23.20	26.10	29.07	31.80	35.21
400 - 500 MHz	7.10	10.20	14.30	16.90	20.10	23.00	26.00	28.87	31.44	35.05
500 - 600 MHz	7.10	10.20	14.40	16.70	19.94	22.80	25.80	28.79	31.35	34.78
600 - 700 MHz	7.10	10.30	14.40	16.40	19.95	22.60	25.70	28.78	30.94	34.20
700 - 800 MHz	7.30	10.50	14.30	16.10	20.30	22.70	25.70	28.80	30.65	34.12
800 - 900 MHz	7.30	10.80	14.20	15.80	20.60	23.20	25.90	28.50	30.55	34.38
900 - 1000 MHz	7.40	11.70	14.20	15.50	21.70	23.80	26.60	28.30	31.30	35.70
insertion loss) (dB)										
5 - 10 MHz	T	3.26	1.55	0.93	0.75	0.55	0.52	0.52	0.55	0.59
10 - 50 MHz	T	3.22	1.43	0.87	0.69	0.50	0.47	0.43	0.45	0.51
50 - 100 MHz	T	3.29	1.45	0.91	0.71	0.51	0.48	0.46	0.44	0.41
100 - 200 MHz	T	3.34	1.50	0.94	0.70	0.52	0.48	0.46	0.45	0.43
200 - 300 MHz	T	3.45	1.61	1.03	0.72	0.56	0.49	0.49	0.47	0.44
300 - 400 MHz	T	3.61	1.71	1.08	0.70	0.58	0.48	0.47	0.49	0.47
400 - 500 MHz	T	3.70	1.81	1.18	0.83	0.67	0.56	0.50	0.51	0.52
500 - 600 MHz	T	4.14	2.01	1.26	0.87	0.78	0.63	0.53	0.56	0.53
600 - 700 MHz	T	4.08	2.32	1.47	1.03	0.92	0.75	0.68	0.65	0.72
700 - 800 MHz	T	4.36	2.46	2.00	1.26	1.25	1.13	1.05	1.01	1.04
800 - 900 MHz	T	4.40	2.84	2.55	1.53	1.17	1.05	0.96	0.91	0.91
900 - 1000 MHz	T	4.27	3.33	2.58	1.48	1.09	0.96	0.92	0.94	0.90

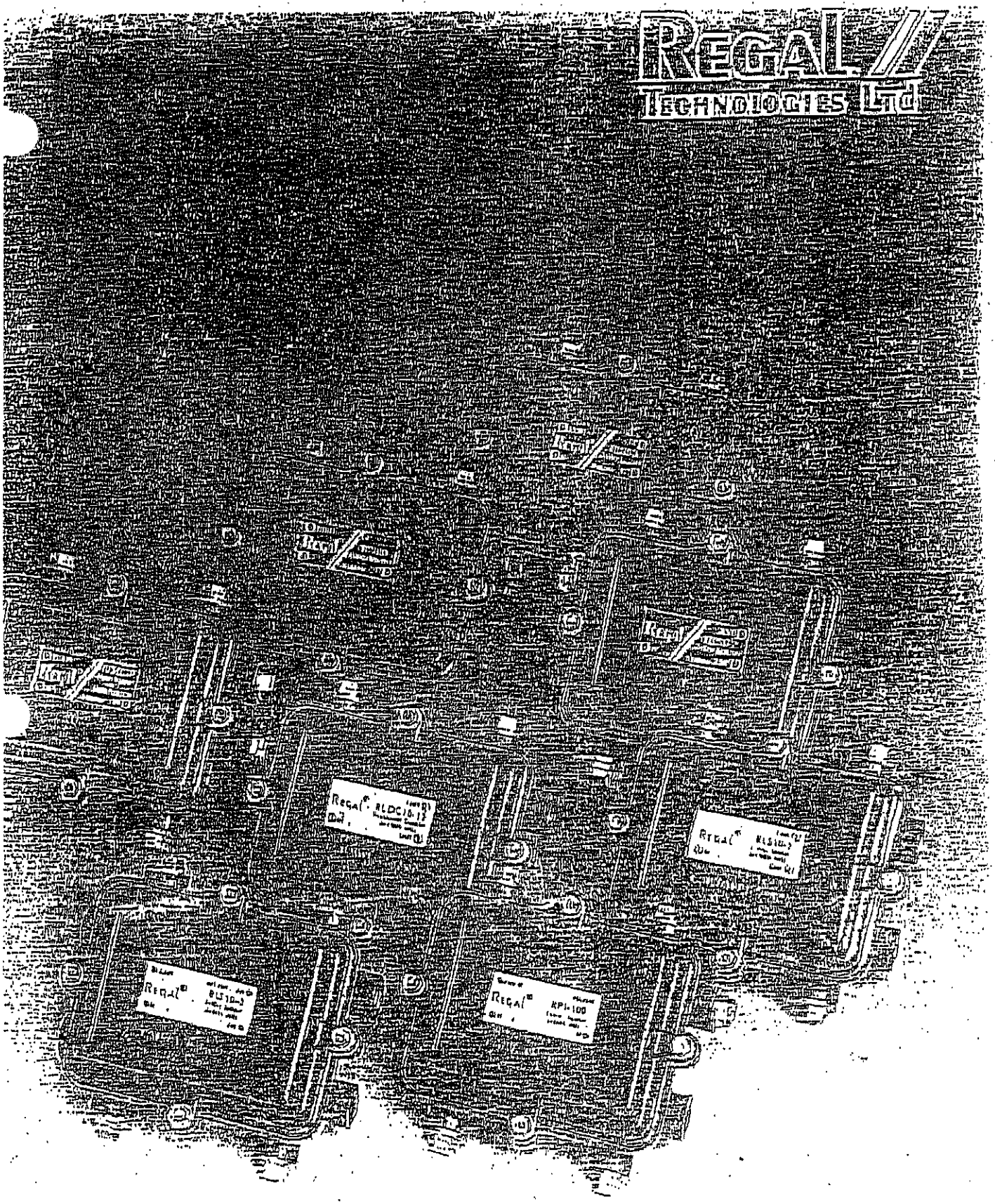
Taps

Hz, 100dB EMI

10 Series - Eight-port

inal performance specifications

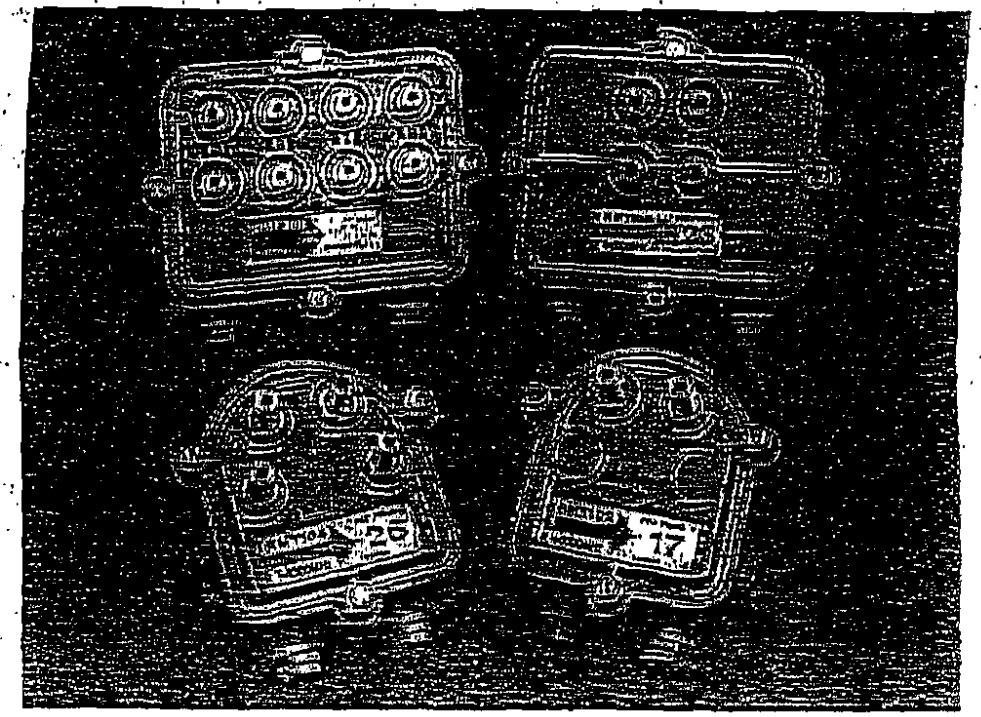
RMT10B-	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	35.0
al tap value (dB)									
5 - 10 MHz	10.55	14.40	17.00	20.10	23.10	25.20	28.10	31.20	34.80
10 - 50 MHz	10.20	13.60	17.10	20.10	23.30	25.60	28.90	31.70	35.20
50 - 100 MHz	10.15	13.70	17.50	20.20	23.40	25.70	28.90	31.80	35.20
100 - 200 MHz	10.25	13.60	17.70	20.30	23.50	26.00	29.20	31.80	35.30
200 - 300 MHz	10.30	13.60	17.80	20.30	23.50	25.90	29.30	32.00	35.50
300 - 400 MHz	10.40	13.70	17.50	20.30	23.60	25.70	29.60	32.00	35.70
400 - 500 MHz	10.40	13.70	17.60	20.30	23.70	25.70	29.80	32.10	35.90
500 - 600 MHz	10.55	14.00	17.70	20.30	23.70	25.80	29.70	32.00	36.00
600 - 700 MHz	10.60	13.80	17.30	20.00	23.20	25.60	29.00	31.80	36.00
700 - 800 MHz	11.00	13.80	17.20	20.40	23.20	25.60	28.60	31.90	35.80
800 - 900 MHz	11.30	14.30	17.50	21.00	23.20	25.60	28.30	31.80	35.90
900 - 1000 MHz	11.60	14.90	18.20	21.30	23.30	25.10	28.40	31.70	35.90
al insertion loss ...ur) (dB)									
5 - 10 MHz	T	3.22	1.54	1.05	0.81	0.77	0.51	0.52	0.52
10 - 50 MHz	T	3.34	1.43	0.94	0.78	0.69	0.41	0.46	0.49
50 - 100 MHz	T	3.46	1.44	0.93	0.72	0.64	0.43	0.46	0.44
100 - 200 MHz	T	3.50	1.48	0.96	0.72	0.66	0.45	0.46	0.46
200 - 300 MHz	T	3.60	1.57	1.03	0.71	0.68	0.47	0.49	0.47
300 - 400 MHz	T	3.71	1.66	1.03	0.74	0.73	0.54	0.51	0.50
400 - 500 MHz	T	3.73	1.96	1.16	0.86	0.87	0.77	0.64	0.61
500 - 600 MHz	T	3.87	1.98	1.48	1.23	1.21	0.97	0.94	0.76
600 - 700 MHz	T	4.19	1.93	1.35	1.01	0.95	0.76	0.68	0.91
700 - 800 MHz	T	4.34	1.80	1.70	1.14	1.04	0.93	0.78	0.85
800 - 900 MHz	T	4.20	2.43	1.85	1.20	1.06	0.93	0.82	0.85
900 - 1000 MHz	T	4.24	2.68	2.42	1.37	1.16	1.04	0.84	0.89


REGAL
TECHNOLOGIES LTD

Taps

z, 100dB EMI
D Series

l has developed the first and line passive product industry. 1 GHz Regal signed to optimize sig- the drop. Each unit emium components to al integrity and ensure on characteristics. The l groove housing design n metallic gasket pro- l ingress and egress. A weather gasket within and groove housing tablishes a watertight To further inhibit mois- s, each "F" port is sealed t and faceplate interface prene gasket. The back sealed with water- y, eliminating water into the circuit board.



RMT108-11, RMT104-23, RMT104-26, RMT102-17 (clockwise from top left)

ation

elerating trends towards apacity for near video on HDTV, digital audio and loyment stimulate the 1 GHz capacity. Installing ps today futureproofs a r these emerging tech- Advanced technology rmise have enabled Regal a 1 GHz tap which is ageable with all existing Regal taps. All Regal taps as power passing. Non- assing versions of the eries taps are available. your Regal representative ls and specifications.

le Options

MHz taps may be up- to 1 GHz with a faceplate out. 1 GHz taps are avail- wide and narrow bodies for

Features:

- Glass epoxy printed circuit board with premium components for superior RF performance
- Interlocking tongue and groove faceplate/housing design provides exceptional EMI isolation
- 360 alloy aluminum housing with double polyurethane coating resists corrosion and increases product life
- Triple sealed nickel plated brass "F" ports with drip wells inhibit water migration and resist corrosion
- Interchangeable faceplates with all existing 600 MHz Regal taps

Performance and Reliability

- 1 GHz bandwidth with low loss characteristics

Installation ease

- 1/2" long numbered "F" ports for proper connector fit also allow use of sealing boots
- Small unit size (two and four-port) fits easily into pedestals
- Cast-in strip gauge for proper center conductor trim length
- Captive hardware prevents accidental loss during installs
- Color coded tap values for easy identification
- Conical center conductor guide for accurate feeder line installs

Mechanical Integrity

- Stainless steel hardware resists corrosion
- Non-rotational seizing mechanism with four seizure screws

ıe Passives
Hz, 100dB EMI
0-2, RLS10-3 Line Splitters

REGAL TECHNOLOGIES Ltd

case performance specifications

0-2 - Two-way splitter

ıcy (MHz)	5 - 10	10 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 - 900	900 - 1000
ı loss (dB maximum)	4.3	4.2	4.6	4.6	5.0	5.2	5.4	5.7
ɔss (dB minimum)	16	18	19	20	20	18	17	16
ı (dB minimum)	23	28	25	25	23	23	20	18
ɔlding (dB minimum)	100	100	100	100	100	100	100	100
ɔdulation 10 Amp (dB min.)	60	60	60	60	60	60	60	60
ɜting	12 Amps AC/DC, 60 Volts, 60 Hz							

0-3 - Three-way splitter

y (MHz)	5 - 10	10 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 - 900	900 - 1000
n loss (dB max.) ports 2, 3	4.4	4.3	4.8	4.8	5.2	5.4	5.7	6.0
port 4	8.0	8.0	8.2	8.4	8.5	8.7	9.0	9.2
loss (dB minimum)	16	18	19	20	19	18	17	16
n (dB minimum)	23	28	23	21	20	20	19	18
ıelding (dB minimum)	100	100	100	100	100	100	100	100
ıodulation 10 Amp (dB min.)	60	60	60	60	60	60	60	60
rating	12 Amps AC/DC, 60 Volts, 60 Hz							

0-2SP - Two-way splitter with surge protection
0-3SP - Three-way splitter with surge protection

Trigger voltage	104 Vpk minimum 118 Vpk maximum
Trigger response	<200 ns (bi-directional voltage sensing)
Current clamping (capacity)	40 Amps (steady state) 400 Amps (8.3 milliseconds)

Recommended torque

Housing closure screws	20-30 in. lb.
Center conductor seizure	15-20 in. lb.
Port plugs	10-15 ft. lb.
Connector pull-out	100 lb. minimum

Line Passives

Hz, 100dB EMI
10-2, RLS10-3 Line Splitters

inal performance specifications

0-2 - Two-way splitter
0-2SP - with surge protection

quency (MHz)	5 - 10	10 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 - 900	900 - 1000
insertion loss (dB maximum)	3.72	3.66	3.96	3.88	3.86	3.82	3.90	4.20

0-3 - Three-way splitter
3SP - with surge protection

quency (MHz)	5 - 10	10 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 - 900	900 - 1000
insertion loss (dB maximum)	3.78	3.70	3.96	3.96	3.98	4.00	3.90	4.10
	7.53	7.08	7.40	7.46	7.48	7.44	7.78	8.48

e Passives

Hz, 100dB EMI

;10-* Directional Couplers

REGAL // TECHNOLOGIES Ltd

case performance specifications

:10-* - Directional couplers

ncy (MHz)	5 - 10	10 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 - 900	900 - 1000
n loss (dB maximum)								
RLDC10-8	2.4	2.4	2.7	2.8	2.9	3.2	3.7	4.1
RLDC10-12	1.7	1.6	2.0	2.1	2.4	2.5	2.9	3.5
RLDC10-16	2.2	1.6	2.0	2.1	2.4	2.5	2.9	3.5
loss (dB minimum)								
RLDC10-8	15	15	16	18	20	18	17	16
RLDC10-12	15	15	16	18	20	18	17	16
RLDC10-16	15	15	17	18	20	18	17	16
dB minimum)								
RLDC10-8	28	30	28	27	24	21	18	18
RLDC10-12	28	28	28	27	25	23	18	18
RLDC10-16	25	25	27	27	27	24	19	18
ielding (dB minimum)	100	100	100	100	100	100	100	100
nodulation 10 Amp (dB min.)	60	60	60	60	60	60	60	60
rating	12 Amps AC/DC, 60 Volts, 60 Hz							

)C10-*SP - Directional couplers with surge protection

Trigger voltage	104 Vpk minimum 118 Vpk maximum
Trigger response	<200 ns bi-directional voltage sensing)
Current clamping (capacity)	40 Amps (steady state) 400 Amps (8.3 milliseconds)

* indicates value of directional coupler; available in 8, 12 or 16dB versions

Recommended torque

Housing closure screws	20-30 in. lb.
Center conductor seizure	15-20 in. lb.
Port plugs	10-15 ft. lb.
Connector pull-out	100 lb. minimum

Line Passives

Hz, 100dB EMI
C10-* Directional Couplers

inal performance specifications

C10-* - Directional couplers
C10-* SP - with surge protection

quency (MHz)	5 - 10	10 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 - 900	900 - 1000
loss								
RLDC10-8	8.62	8.60	8.86	8.70	8.70	8.44	8.14	8.22
RLDC10-12	12.26	12.02	12.22	12.00	11.94	11.84	11.62	11.66
RLDC10-16	16.92	26.88	16.88	16.66	16.50	16.44	16.12	15.74
Loss tolerance	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	±1.2	±1.3
our loss								
RLDC10-8	1.94	1.80	2.12	2.02	2.00	1.96	2.60	3.40
RLDC10-12	1.32	1.30	1.44	1.34	1.36	1.32	1.42	1.80
RLDC10-16	1.10	1.10	1.34	1.18	1.14	1.14	1.46	1.78

* indicates value of directional coupler; available in 8, 12 or 16dB versions

ine Passives
GHz, 100dB EMI
-100 Power Inserters

REGAL
TECHNOLOGIES Ltd

st case performance specifications

-100 - Power inserter

ency (MHz)	5 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 -1000
ion loss (dB maximum)	1.0	1.0	1.0	1.2	1.2	1.5
n loss (dB minimum)	16	20	20	19	18	16
ion (dB minimum)	60	60	60	60	57	53
hielding (dB minimum)	100	100	100	100	100	100
modulation 10 Amp (dB min.)	60	60	60	60	60	60
r rating	12 Amps AC/DC, 60 Volts, 60 Hz					

DOSP - Power inserter with surge protection

Trigger voltage	104 Vpk minimum 118 Vpk maximum
Trigger response	<200 ns (bi-directional voltage sensing)
Current clamping (capacity)	40 Amps (steady state 400 Amps (8.3 milliseconds)

Recommended torque

Housing closure screws	20-30 in. lb.
Center conductor seizure	15-20 in. lb.
Port plugs	10-15 ft. lb.
Connector pull-out	100 lb. minimum

Line Passives

Hz, 100dB EMI
00 Power Inserters

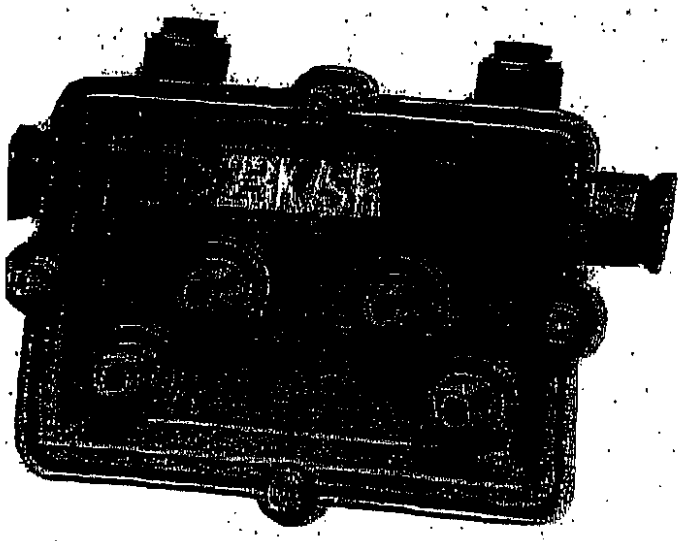
al performance specifications

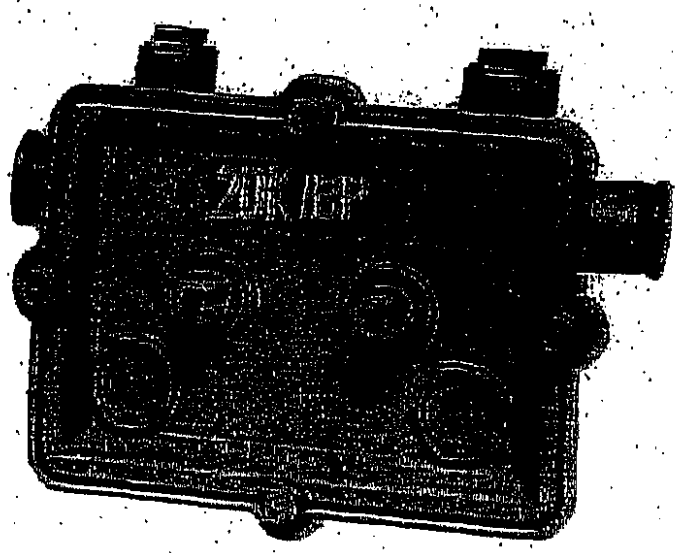
O - Power inserter -
DSP - with surge protection

cy (MHz)	5 - 50	50 - 300	300 - 400	400 - 500	500 - 600	600 -1000
loss						
RPI-100	0.50	0.84	0.82	0.88	0.82	1.00
RPI-100SP	0.50	0.84	0.82	0.88	0.82	1.00

FT*-*K/* Series

STARLINE®
Full Feature Taps





JRES

- 1000 MHz BANDPASS
- MINIMAL INSERTION LOSS
- BACKWARD COMPATIBLE
- SURGE RESILIENT
- SUPERIOR HUM MODULATION PERFORMANCE
- 12 AMPERE POWER PASSING
- RF/AC BYPASS CAPABILITY
- UPGRADABLE TO POWER EXTRACTING

RODUCTS

• FFT2-*K/SR	12 Values	4-35
• FFT2-*K/BP	12 Values	4-35
• FFT4-*K/SR	11 Values	7-35
• FFT4-*K/BP	11 Values	7-35
• FFT8-*K/SR	9 Values	10-35
• FFT8-*K/BP	9 Values	10-35

NTRODUCTION

STARLINE Full Feature Taps Series odel FFT*-*K/*) of 1 GHz taps pro- ides the latest technology while maintain- ing backward compatibility and allowing future upgradability.

BACKWARD COMPATIBILITY

All FFT*-*K/SR Series taps are backward compatible with NextLevel FFT-"F", "G", "H", "J", and standard "K" Series tap housings.

SURGE RESILIENT

FFT*-*K/SR Series taps offer the same features and performance as their predecessor the FFT*-*K Series tap and are a drop-in replacement for these taps. In addition, the SR taps offer the additional feature of surge resiliency at each F-port. This feature greatly reduces failures due to surges down the drop cable. Hum problems associated with system grounding are also eliminated by this feature.

12 AMPERE POWER PASSING

The FFT*-*K/* Series of taps is capable of passing a maximum of 12 Amperes from input to output on the feeder. These taps are designed for optimal hum modulation performance at high currents and can be used in 60 or 90 Volt systems.

RF/AC BYPASS CAPABILITY

The FFT*-*K/BP RF/AC bypass tap offers all of the features of the FFT*-*K/SR tap, including surge resiliency. In addition, the FFT*-*K/BP offers the added feature of feeder-line continuity when the faceplate is removed. This is achieved through the use of a make-before-break switch that is contained in the tap housing. This feature allows the tap to be upgraded or replaced without interrupting service on the feeder.

For customers who own existing FFT taps without this feature, an external RF/AC bypass jumper (Model BTT-RF/AC) is available to perform this function. The jumper is installed only when the faceplate is being changed. The jumper is then removed and can be used again.

UPGRADABLE TO POWER EXTRACTING

All FFT*-*K/* taps are upgradable to power extracting, as required. The K-Series power extracting tap upgrades can be installed in all FFT*-*K/* Series taps and maintain the same backward compatibility as these taps. Power extracting taps are used for network powering of telephony equipment.

NEXTLEVEL™

FFT*-*K/* SERIES

Tap to Output
Isolation Normal

Model No.	5-30 MHz	30-50 MHz	50-450 MHz	450-600 MHz	600-750 MHz	750-1000 MHz
FFT-2K						
FFT2-4K/*	–	–	–	–	–	–
FFT2-7K/*	15	20	25	25	20	20
FFT2-10K/*	18	25	25	25	25	20
FFT2-12K/*	20	25	25	25	25	25
FFT2-14K/*	24	25	30	30	27	25
FFT2-17K/*	27	35	35	35	30	30
FFT2-20K/*	30	35	40	40	40	35
FFT2-23K/*	30	37	40	40	40	35
FFT2-26K/*	36	45	45	45	40	35
FFT2-29K/*	39	45	45	45	40	35
FFT2-32K/*	42	45	45	45	40	36
FFT2-35K/*	45	45	45	45	45	38

Model No.	5-30 MHz	30-50 MHz	50-450 MHz	450-600 MHz	600-750 MHz	750-1000 MHz
FFT-4K						
FFT4-7K/*	–	–	–	–	–	–
FFT4-10K/*	20	20	25	25	25	25
FFT4-14K/*	25	30	30	30	25	25
FFT4-15.5K/*	25	25	30	25	25	25
FFT4-17K/*	27	27	30	30	30	25
FFT4-20K/*	30	30	35	35	35	30
FFT4-23K/*	35	35	40	40	40	35
FFT4-26K/*	36	40	40	40	40	35
FFT4-29K/*	39	40	45	45	45	40
FFT4-32K/*	42	45	45	45	45	40
FFT4-35K/*	45	45	45	45	45	40

Model No.	5-30 MHz	30-50 MHz	50-450 MHz	450-600 MHz	600-750 MHz	750-1000 MHz
FFT-8K						
FFT8-10K/*	–	–	–	–	–	–
FFT8-14K/*	20	25	25	25	25	25
FFT8-17K/*	25	30	30	30	30	25
FFT8-20K/*	30	30	35	35	35	30
FFT8-23K/*	30	35	35	35	35	30
FFT8-26K/*	38	40	40	40	40	35
FFT8-29K/*	40	45	45	40	40	35
FFT8-32K/*	40	45	45	40	40	35
FFT8-35K/*	40	45	45	40	40	35

specifications subject to change without notice.

FFT*-*K/* SERIES

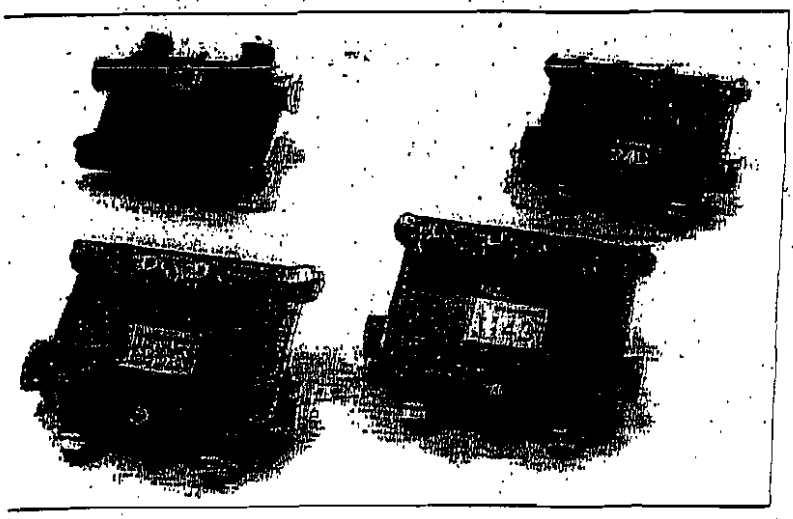
Tap Design Specifications 5-1000 MHz

Insertion Loss (dB)

MAXIMUM SPECIFICATION

sertion Loss (dB)	Nom. Tap Value	5 MHz	10 MHz	50 MHz	450 MHz	550 MHz	750 MHz	860 MHz	1000 MHz
HT2-4DK/*	4.5	–	–	–	–	–	–	–	–
FT2-7K/*	7.5	3.6	3.5	3.5	4.1	4.4	4.5	4.7	5.0
FT2-10K/*	10.5	2.0	1.5	1.5	2.0	2.0	2.4	2.7	3.5
FT2-12K/*	12.0	1.6	1.3	1.2	1.7	1.8	2.1	2.6	2.9
FT2-14K/*	14.0	1.4	1.1	1.1	1.5	1.5	1.8	2.1	2.9
FT2-17K/*	17.0	1.2	1.1	1.0	1.3	1.4	1.7	2.0	2.2
FT2-20K/*	20.0	0.9	0.7	0.7	1.1	1.3	1.5	1.8	2.1
FT2-23K/*	23.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.0
FT2-26K/*	26.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.0
FT2-29K/*	29.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.0
FT2-32K/*	32.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.0
FT2-35K/*	35.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.0
FT4-7DK/*	6.8	–	–	–	–	–	–	–	–
FT4-10K/*	10.3	3.6	3.5	3.5	4.2	4.3	4.5	4.7	4.5
FT4-14K/*	14.4	1.9	1.5	2.1	2.1	2.1	2.6	2.8	3.5
FT4-15.5K/*	15.5	1.6	1.3	1.3	1.7	1.7	2.1	2.5	3.1
FT4-17K/*	17.0	1.4	1.1	1.2	1.6	1.5	1.9	2.3	2.8
FT4-20K/*	20.0	1.1	0.9	1.0	1.5	1.4	1.8	2.1	2.4
FT4-23K/*	23.0	0.8	0.7	0.7	1.2	1.2	1.4	1.6	2.2
FT4-26K/*	26.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.1
FT4-29K/*	29.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.1
FT4-32K/*	32.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.1
FT4-35K/*	35.0	0.6	0.5	0.5	1.0	1.1	1.4	1.6	2.1
FT8-10DK/*	10.4	–	–	–	–	–	–	–	–
FT8-14K/*	14.2	4.2	3.6	3.5	4.3	4.2	4.6	4.8	5.3
FT8-17K/*	17.8	2.5	2.0	1.8	2.3	2.5	2.9	3.0	3.8
FT8-20K/*	20.0	1.8	1.5	1.4	1.5	1.7	2.1	2.3	3.0
FT8-23K/*	22.5	1.3	1.1	1.0	1.4	1.4	1.7	1.9	2.4
FT8-26K/*	26.1	0.9	0.7	0.6	0.9	1.1	1.4	1.7	2.2
FT8-29K/*	29.2	0.6	0.5	0.5	0.9	1.1	1.4	1.6	2.2
FT8-32K/*	32.3	0.6	0.5	0.5	0.9	1.1	1.4	1.6	2.2
FT8-35K/*	35.0	0.6	0.5	0.5	0.9	1.1	1.4	1.6	2.2

Conventional Multi-Taps



9000-C Series

The 9000-C series 1 GHz conventional multi-tap taps off part of its input RF signal but allows the rest of that signal to pass through. It divides the tapped-off signal into multiple outputs.

- Optional continuous AC and RF power passing circuits eliminate downstream service interruptions when face plates are removed.
- 90° rotating seizure mechanism makes installation easy.
- F-port capacitors eliminate hum modulation that can originate at the subscriber home.
- Environmental coating provides excellent corrosion resistance.
- Dual gaskets keep RF signals pure and protect the circuitry from extreme environments.

---

ulti-tap is a combination of a ptional coupler and splitters anged to produce a specific ıe or signal loss, from the ti-tap's input to its tap ports.

ilps' 9000-C series 1 GHz iti-taps are available in two - ., four-way, and eight-way dels, offering two, four, and nt tap ports respectively. We've ated a compact tap which fits illy into a 6-inch pedestal.

- 9000-C series multi-taps all re these standard features:

1 GHz bandwidth capacity,
brass SCTE F-ports with drip lips and rubber boots,
RFI and weather gaskets,
network power capacity of 90 VAC, 0 to 60 Hz,
strip gauges and heat-shrink ridges for easy installation,

- numbered ports for easier subscriber audits,
- 2.5 KV surge resistance meets ANSI/IEEE C62.41-1991 Class B, 2500 V surge and 12-amp current handling capability,
- interchangeable face plates, and
- face plates fit in 8000 series housings for easy upgrade to 1 GHz.

The aluminum die-cast housing is pressure tested to 10 psi and is coated with a protective finish, which provides excellent corrosion resistance. Rubber boots inside the brass SCTE F-ports help keep the 9000-C series multi-taps water-resistant. A single alloy at contact points eliminates the galvanic couple and corrosion that accompanies aluminum-to-brass connections. So, by connecting the brass SCTE F-port to a brass F-connector, you can eliminate a weak link in your network.

All F-ports have a capacitor that blocks hum modulation that can originate in the subscriber home. This capacitor also provides additional protection from transients traveling on subscriber drop cables.

Order the 9000T-PWR-FI power bypass assembly option to prevent interruptions in power and RF service when face plates are removed. Also, order the 9000-USB-PBT for easy aerial to underground interconnections.

nventional Multi-Taps

t Case Specifications* — 9800-C Eight-Way Series

	9812	9815	9818	9821	9824	9827	9830	9833	9836	Units
ue	12.0	15.5	18.0	21.0	24.0	27.0	30.0	33.0	36.0	dB
th					10-1000					MHz
de	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
e										
-19 MHz	1.7	2.0	1.5	2.5	2.5	2.5	2.5	2.5	2.5	± dB
899 MHz	1.8	2.0	1.5	1.5	1.5	1.5	1.5	1.8	1.8	± dB
-1000 MHz	2.3	2.5	1.8	2.4	2.1	2.1	1.9	2.1	2.3	± dB
Loss (max.)										
MHz	—	3.8	1.9	1.2	1.0	0.8	0.5	0.5	0.5	dB
MHz	—	3.5	1.5	1.0	0.9	0.7	0.4	0.4	0.4	dB
MHz	—	3.5	1.6	1.0	0.8	0.7	0.4	0.4	0.4	dB
MHz	—	4.0	1.9	1.2	0.8	0.8	0.6	0.6	0.6	dB
MHz	—	4.0	1.8	1.2	0.9	0.8	0.6	0.6	0.6	dB
MHz	—	4.1	2.0	1.3	1.0	0.8	0.6	0.6	0.6	dB
MHz	—	4.1	2.0	1.3	1.0	0.8	0.6	0.6	0.6	dB
MHz	—	4.2	2.1	1.4	1.0	0.8	0.6	0.6	0.6	dB
MHz	—	4.3	2.2	1.4	1.0	0.8	0.7	0.7	0.7	dB
MHz	—	4.4	2.2	1.4	1.0	0.8	0.7	0.7	0.7	dB
MHz	—	4.6	2.3	1.3	1.1	0.9	0.8	0.8	0.8	dB
MHz	—	4.7	2.4	1.4	1.1	1.0	0.9	0.9	0.9	dB
MHz	—	5.1	2.8	1.6	1.3	1.2	1.2	1.2	1.2	dB
MHz	—	5.3	3.2	1.8	1.6	1.3	1.4	1.4	1.4	dB
0 MHz	—	5.4	3.9	2.3	1.8	1.4	1.4	1.4	1.4	dB
max.)										
1000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
t Isolation (min.)										
MHz	—	21	24	27	30	34	34	36	38	dB
MHz	—	27	30	32	34	38	40	42	44	dB
-899 MHz	—	25	28	30	33	36	38	40	41	dB
-1000 MHz	—	25	28	28	33	34	36	38	39	dB
p Isolation (min.)										
29 MHz	20	20	20	20	20	20	20	20	20	dB
449 MHz	25	25	25	25	25	25	25	25	25	dB
-749 MHz	23	23	23	23	23	23	23	23	23	dB
-1000 MHz	20	20	20	20	20	20	20	20	20	dB
oss In (min.)										
29 MHz	17	17	17	17	17	17	17	17	17	dB
599 MHz	18	18	18	18	18	18	18	18	18	dB
-899 MHz	17	17	17	17	17	17	17	17	17	dB
-1000 MHz	16	16	16	16	16	16	16	16	16	dB
oss Out (min.)										
29 MHz	—	17	17	17	17	17	17	17	17	dB
599 MHz	—	18	18	18	18	18	18	18	18	dB
-899 MHz	—	17	17	17	17	17	17	17	17	dB
-1000 MHz	—	16	16	16	16	16	16	16	16	dB
oss Tap (min.)										
29 MHz	16	16	16	16	16	16	16	16	16	dB
599 MHz	18	18	18	18	18	18	18	18	18	dB
-1000 MHz	16	16	16	16	16	16	16	16	16	dB
dulation @ 8 amps (max.)										
49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	dB
599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	dB
-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	dB
-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	dB
tion					Exceeds FCC requirements					
d	0	12	12	12	12	12	12	12	12	amps
sing										
in.)										
60 MHz	90	90	90	90	90	90	90	90	90	VAC
ating	ANSI/IEEE C62.41-1991, Class B, 2500 Volts									

ifications are subject to change without notice.

Conventional Multi-Taps

minal Performance* — 9800-C Eight-Way Series

	9812	9815	9818	9821	9824	9827	9830	9833	9836	Units
Value	12.0	15.5	18.0	21.0	24.0	27.0	30.0	33.0	36.0	dB
dwidth					10-1000					MHz
or Code	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
rtion Loss (Input/Output)										
10 MHz	—	3.5	1.4	1.1	0.9	0.7	0.3	0.3	0.3	dB
30 MHz	—	3.4	1.3	0.9	0.7	0.6	0.3	0.3	0.3	dB
54 MHz	—	3.4	1.3	0.9	0.7	0.5	0.3	0.3	0.3	dB
112 MHz	—	3.8	1.7	1.0	0.8	0.7	0.4	0.5	0.4	dB
150 MHz	—	3.8	1.7	1.0	0.8	0.7	0.4	0.5	0.4	dB
186 MHz	—	3.9	1.8	1.0	0.8	0.7	0.4	0.5	0.4	dB
222 MHz	—	3.9	1.8	1.1	0.8	0.7	0.4	0.5	0.4	dB
330 MHz	—	4.0	1.9	1.1	0.8	0.7	0.5	0.5	0.5	dB
400 MHz	—	4.1	2.0	1.1	0.8	0.7	0.5	0.5	0.5	dB
450 MHz	—	4.1	2.0	1.1	0.9	0.7	0.6	0.6	0.5	dB
550 MHz	—	4.2	2.0	1.1	0.9	0.7	0.6	0.6	0.5	dB
600 MHz	—	4.5	2.2	1.2	0.9	0.8	0.7	0.7	0.6	dB
750 MHz	—	4.9	2.6	1.3	1.0	0.9	0.8	0.8	0.8	dB
862 MHz	—	5.0	2.9	1.5	1.2	1.1	1.0	1.0	1.0	dB
1000 MHz	—	5.2	3.5	1.7	1.2	1.1	1.1	1.1	1.1	dB
Loss										
10-19 MHz	10.7	13.8	17.8	19.4	22.3	25.5	28.8	32.2	34.5	dB
20-899 MHz	11.3	14.7	18.4	20.6	24.3	26.7	30.4	32.8	35.6	dB
900-1000 MHz	13.0	16.7	18.8	20.7	25.1	27.8	30.4	33.2	36.3	dB

ecifications are subject to change without notice.

ventional Multi-Taps

Case Specifications* — 9400-C Four-Way Series

	9408	9411	9414	9417	9420	9423	9426	9429	9432	9435	Units
	8.0	11.5	14.5	17.0	20.0	23.0	26.0	29.0	32.0	35.0	dB
					10-1000						MHz
	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
MHz	1.5	1.5	1.5	2.1	1.8	2.2	2.5	2.5	2.3	1.9	± dB
MHz	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	± dB
00 MHz	1.5	2.5	2.3	2.2	2.0	1.9	1.7	1.6	1.8	2.0	± dB
(max.)											
	—	3.6	1.9	1.2	1.0	0.8	0.5	0.4	0.4	0.4	dB
	—	3.5	1.5	0.8	0.8	0.7	0.4	0.3	0.3	0.3	dB
	—	3.5	1.5	0.8	0.8	0.7	0.4	0.3	0.3	0.3	dB
z	—	4.0	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
z	—	4.1	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
z	—	4.1	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
z	—	4.2	1.8	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
z	—	4.3	1.9	1.0	1.0	0.9	0.6	0.6	0.6	0.6	dB
z	—	4.3	2.0	1.1	1.1	0.8	0.7	0.7	0.7	0.7	dB
z	—	4.3	2.0	1.1	1.1	0.8	0.7	0.7	0.7	0.7	dB
z	—	4.4	2.1	1.2	1.1	0.8	0.7	0.7	0.7	0.7	dB
z	—	4.7	2.4	1.4	1.1	1.0	0.8	0.8	0.8	0.8	dB
z	—	5.1	2.9	1.6	1.4	1.3	1.1	1.1	1.1	1.1	dB
z	—	5.2	3.3	1.8	1.6	1.5	1.2	1.2	1.2	1.2	dB
Hz	—	5.4	4.0	2.2	1.8	1.6	1.4	1.3	1.3	1.3	dB
) MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
olation (min.)											
Hz	—	20	21	22	27	30	34	34	36	38	dB
Hz	—	24	27	30	33	36	38	40	42	44	dB
MHz	—	22	25	28	31	34	36	38	40	42	dB
00 MHz	—	22	25	28	31	34	36	38	40	42	dB
olation (min.)											
MHz	20	20	20	20	20	20	20	20	20	20	dB
MHz	25	25	25	25	25	25	25	25	25	25	dB
8 MHz	23	23	23	23	23	23	23	23	23	23	dB
00 MHz	20	20	20	20	20	20	20	20	20	20	dB
In (min.)											
MHz	17	17	17	17	17	17	17	17	17	17	dB
MHz	18	18	18	18	18	18	18	18	18	18	dB
9 MHz	17	17	17	17	17	17	17	17	17	17	dB
00 MHz	16	16	16	16	16	16	16	16	16	16	dB
Out (min.)											
MHz	—	17	17	17	17	17	17	17	17	17	dB
MHz	—	18	18	18	18	18	18	18	18	18	dB
9 MHz	—	17	17	17	17	17	17	17	17	17	dB
00 MHz	—	16	16	16	16	16	16	16	16	16	dB
Tap (min.)											
MHz	16	16	16	16	16	16	16	16	16	16	dB
MHz	18	18	18	18	18	18	18	18	18	18	dB
00 MHz	16	16	16	16	16	16	16	16	16	16	dB
ation @ 8 amps (max.)											
MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
9 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
00 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB
					Exceeds FCC requirements						
	0	12	12	12	12	12	12	12	12	12	amps
ng											
)											
z	90	90	90	90	90	90	90	90	90	90	VAC
ng					ANSI/IEEE C62.41-1991, Class B, 2500 Volts						

ations are subject to change without notice.

minal Performance* — 9400-C Four-Way Series

	9408	9411	9414	9417	9420	9423	9426	9429	9432	9435	Units
p Value	8.0	11.5	14.5	17.0	20.0	23.0	26.0	29.0	32.0	35.0	dB
ndwidth					10-1000						MHz
or Code	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	Brown	
ertion Loss (In/Out)											
10 MHz	—	3.5	1.3	1.0	0.9	0.6	0.3	0.3	0.3	0.3	dB
30 MHz	—	3.4	1.3	0.7	0.7	0.6	0.3	0.3	0.3	0.3	dB
54 MHz	—	3.4	1.3	0.7	0.7	0.6	0.3	0.3	0.3	0.3	dB
112 MHz	—	3.8	1.7	0.9	0.8	0.7	0.5	0.5	0.5	0.5	dB
160 MHz	—	3.8	1.7	0.9	0.8	0.7	0.5	0.5	0.5	0.5	dB
186 MHz	—	3.9	1.8	0.9	0.9	0.7	0.5	0.5	0.5	0.5	dB
222 MHz	—	3.9	1.8	0.9	0.9	0.7	0.5	0.5	0.5	0.5	dB
330 MHz	—	4.0	1.8	0.9	0.9	0.7	0.5	0.5	0.5	0.5	dB
400 MHz	—	4.1	1.8	1.0	0.9	0.8	0.5	0.6	0.6	0.5	dB
450 MHz	—	4.1	1.8	1.0	0.9	0.8	0.5	0.6	0.6	0.5	dB
550 MHz	—	4.2	1.9	1.0	0.9	0.8	0.6	0.6	0.6	0.6	dB
600 MHz	—	4.4	2.1	1.1	0.9	0.8	0.6	0.6	0.7	0.6	dB
750 MHz	—	4.7	2.6	1.3	1.1	1.0	0.8	0.8	0.8	0.8	dB
862 MHz	—	4.8	3.0	1.6	1.3	1.1	1.1	1.0	1.0	1.0	dB
1000 MHz	—	4.9	3.6	1.8	1.3	1.1	1.1	1.0	1.0	1.0	dB
Loss											
10-19 MHz	6.9	10.3	14.5	15.8	19.4	22.1	24.9	27.9	31.0	34.2	dB
20-899 MHz	7.2	10.7	14.7	17.6	21.0	23.6	26.3	29.2	32.2	35.3	dB
900-1000 MHz	8.2	12.8	15.0	18.2	20.7	23.2	26.0	29.1	32.0	35.2	dB

pecifications are subject to change without notice.

nventional Multi-Taps

Case Specifications* — 9200-C Two-Way Series

	9204	9208	9211	9214	9217	9220	9223	9226	9229	9232	Units
	4.0	8.5	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	dB
					10-1000						MHz
e	Black	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	
9 MHz	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	± dB
99 MHz	1.5	2.0	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.8	± dB
1000 MHz	2.0	2.0	1.5	2.0	1.6	1.7	1.7	2.0	2.0	2.0	± dB
oss (max.)											
Hz	—	3.6	1.9	1.0	1.0	0.8	0.5	0.5	0.4	0.4	dB
Hz	—	3.1	1.5	0.8	0.8	0.7	0.5	0.4	0.3	0.3	dB
Hz	—	3.3	1.5	0.8	0.8	0.7	0.4	0.4	0.3	0.3	dB
MHz	—	3.3	1.8	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
MHz	—	3.3	1.8	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
MHz	—	3.4	1.9	1.0	0.9	0.8	0.5	0.5	0.5	0.5	dB
MHz	—	3.5	1.9	1.0	1.0	0.8	0.5	0.5	0.5	0.5	dB
MHz	—	3.6	2.0	1.0	1.0	0.8	0.6	0.6	0.6	0.6	dB
MHz	—	3.7	2.1	1.1	1.0	0.9	0.7	0.7	0.6	0.6	dB
MHz	—	3.8	2.1	1.1	1.0	0.9	0.7	0.7	0.6	0.6	dB
MHz	—	3.9	2.1	1.2	1.1	0.9	0.7	0.7	0.7	0.7	dB
MHz	—	4.1	2.4	1.4	1.2	1.0	0.8	0.8	0.8	0.8	dB
MHz	—	4.7	3.0	1.6	1.4	1.2	1.0	1.0	0.9	0.9	dB
MHz	—	5.0	3.5	1.8	1.6	1.4	1.2	1.2	1.1	1.1	dB
) MHz	—	5.5	4.1	2.0	1.8	1.6	1.4	1.3	1.3	1.3	dB
ax.)											
000 MHz	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	± dB
Isolation (min.)											
1Hz	—	20	20	20	24	28	30	34	34	36	dB
MHz	—	22	24	26	30	33	36	38	40	42	dB
899 MHz	—	20	22	25	28	31	34	36	38	40	dB
1000 MHz	—	20	22	24	28	31	34	36	38	40	dB
o Isolation (min.)											
.9 MHz	20	20	20	20	20	20	20	20	20	20	dB
49 MHz	25	25	25	25	25	25	25	25	25	25	dB
749 MHz	23	23	23	23	23	23	23	23	23	23	dB
1000 MHz	20	20	20	20	20	20	20	20	20	20	dB
ss In (min.)											
29 MHz	17	17	17	17	17	17	17	17	17	17	dB
599 MHz	18	18	18	18	18	18	18	18	18	18	dB
-899 MHz	17	17	17	17	17	17	17	17	17	17	dB
-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
ss Out (min.)											
29 MHz	—	17	17	17	17	17	17	17	17	17	dB
599 MHz	—	18	18	18	18	18	18	18	18	18	dB
)-899 MHz	—	17	17	17	17	17	17	17	17	17	dB
)-1000 MHz	—	16	16	16	16	16	16	16	16	16	dB
ss Tap (min.)											
29 MHz	16	16	16	16	16	16	16	16	16	16	dB
599 MHz	18	18	18	18	18	18	18	18	18	18	dB
)-1000 MHz	16	16	16	16	16	16	16	16	16	16	dB
dulation @ 8 amps (max.)											
-49 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
-599 MHz	—	-70	-70	-70	-70	-70	-70	-70	-70	-70	dB
)-749 MHz	—	-64	-64	-64	-64	-64	-64	-64	-64	-64	dB
)-1000 MHz	—	-60	-60	-60	-60	-60	-60	-60	-60	-60	dB
tion	Exceeds FCC requirements										
.)	0	12	12	12	12	12	12	12	12	12	amps
ssing											
min.)											
60 MHz	90	90	90	90	90	90	90	90	90	90	VAC
ating	ANSI/IEEE C62.41-1991, Class B, 2500 Volts										

ifications are subject to change without notice.

Conventional Multi-Taps

minal Performance* — 9200-C Two-Way Series

	9204	9208	9211	9214	9217	9220	9223	9226	9229	9232	Units
ap Value	4.0	8.5	11.0	14.0	17.0	20.0	23.0	26.0	29.0	32.0	dB
andwidth					10-1000						MHz
olor Code	Black	Orange	Gold	White	Blue	Green	Purple	Yellow	Red	Silver	
sertion Loss (In/Out)											
10 MHz	—	2.8	1.3	1.0	0.9	0.7	0.6	0.3	0.3	0.3	dB
30 MHz	—	2.8	1.3	0.8	0.7	0.6	0.3	0.3	0.3	0.3	dB
54 MHz	—	2.8	1.3	0.7	0.7	0.6	0.3	0.3	0.3	0.3	dB
112 MHz	—	3.2	1.7	0.9	0.8	0.7	0.5	0.5	0.4	0.4	dB
150 MHz	—	3.2	1.7	0.9	0.8	0.7	0.5	0.5	0.4	0.4	dB
186 MHz	—	3.2	1.7	0.9	0.8	0.7	0.5	0.5	0.4	0.4	dB
222 MHz	—	3.3	1.7	0.9	0.9	0.8	0.5	0.5	0.5	0.5	dB
330 MHz	—	3.4	1.8	0.9	0.9	0.8	0.5	0.5	0.5	0.5	dB
400 MHz	—	3.4	1.9	1.0	0.9	0.8	0.6	0.6	0.5	0.5	dB
450 MHz	—	3.4	1.9	1.0	0.9	0.8	0.6	0.6	0.5	0.5	dB
550 MHz	—	3.5	1.9	1.0	0.9	0.8	0.6	0.6	0.5	0.6	dB
600 MHz	—	3.8	2.1	1.1	1.0	0.9	0.6	0.6	0.6	0.6	dB
750 MHz	—	4.3	2.5	1.2	1.2	1.0	0.8	0.8	0.7	0.8	dB
862 MHz	—	4.5	2.8	1.4	1.3	1.1	0.9	0.9	0.9	1.0	dB
1000 MHz	—	4.8	3.5	1.6	1.3	1.1	1.0	1.0	1.0	1.1	dB
Loss											
10-19 MHz	3.4	7.7	10.8	13.7	15.7	18.4	21.2	24.4	27.2	30.5	dB
20-899 MHz	3.7	8.0	11.1	14.9	17.4	20.0	22.6	25.5	28.1	31.2	dB
900-1000 MHz	5.2	9.6	11.0	15.2	17.0	20.0	23.2	26.5	29.1	32.8	dB

ecifications are subject to change without notice.

nventional Multi-Taps

/cations (continued)

9000-C Series

	Notes		Units
nsions x width x depth)	a	3.8 x 4.9 x 2.4 (9.6 x 12.6 x 6.1)	in. (cm)
ht		0.8 (0.37)	lbs. (kg)
ector Type	b	Standard CATV KS entry connectors for cable up to 0.625" diameter	...
ength		1.44 (3.7)	in. (cm)

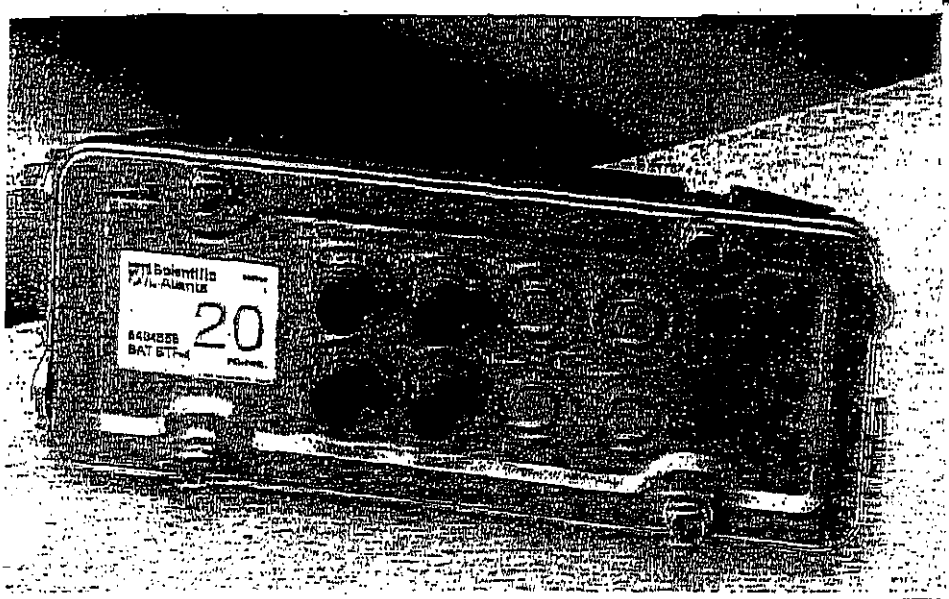
tions are subject to change without notice.

ension includes plug; depth dimension includes 1/2" F-ports and strand clamp/bolt in closed position.
ctor (.067 inch diameter) is recommended for best RF performance.

Transmission Systems

Multimedia Stretch™ Taps

Scientific Atlanta



Scientific-Atlanta's Multimedia Stretch™ Tap is designed to support the delivery of advanced applications and services in a cost-effective platform. In addition to providing high-quality RF performance specifications that are essential to the reliable transmission of data and digital video services, the Multimedia Stretch Tap includes the capability to house other performance-enhancing options. As an example, we have developed and field-tested a version of the plug-in directional coupler that cost-effectively balances reverse path signals resulting in a marked performance improvement in this challenging portion of your networks.

Nearing completion is an addressable version of the Multimedia Stretch Tap faceplate that introduces significant operating cost savings and new revenue-generation opportunities.

During system upgrades, operators are challenged to quickly install new equipment while minimizing the impact on customers. Splicing taps is a time-consuming process complicated by a widened gap in the feeder cabling. Scientific-Atlanta's new Multimedia Stretch Tap features a nine-inch housing that fills this gap — without using costly or performance-reducing extension connectors — providing operators with the fastest way to restore service and complete upgrade efforts.

FEATURES

- Patent-pending Connection-Beam AC/RF bypass switch, providing interruption-free service to downstream customers during faceplate removal
- Faceplate-confined circuitry isolates and simplifies maintenance efforts
- Per-port power activation and protection, maximizing cost and customer service effectiveness
- Nine-inch housing, simplifying system upgrades
- Faceplate reversibility, eliminating costly re-splicing
- Plug-in directional coupler, enabling field modification without costly respicing
- Available in 2-, 4-, and 8-way versions
- Compatible with aerial or pedestal mounting

timedia Stretch Taps

media Stretch Tap also provides an important level of
flexibility by enabling reversibility. As operators
the fiber optic portion of their broadband networks,
it is often a reversal of the feeder signal flow. By
changing the orientation of the plug-in directional
module, technicians can avoid time-consuming and
ive resplicing of the cable.

The plug-in directional coupler module further adds to the flexibility of the tap, and helps to control inventory expense. By removing and replacing the on-board device, operators are able to modify tap values — again without costly resplicing.

Most importantly, Scientific-Atlanta's Multimedia Stretch Tap is designed for the future. Our engineers have maximized available space in the device to allow for adding future advanced features.

FICATIONS

sions

8-way 3.5 in. H x 9 in. W x 3.5 in. D
88.9 mm H x 228.6 mm W x 88.9 mm D

nical

)T housing with coating for environmental protection.
d and swaged extended F-ports for maximum resistance
isture ingress.
-plated brass F-ports to ensure a corrosion-resistant
nterface.
ible housing design permits aerial, pedestal, or MDU
ting schemes.
g temperature from -40°C to +60°C.
elding minimum 100 dB.
ure tested at 10 psi for 60 seconds under water.

ical Specifications

ntinuous Current:	12 amps - 60/90 V AC
Limiting:	250 mA @ 60°C, per drop
esistance:	1 kV
nce:	75 ohm
um Modulation:	70 dB average @ 10 Amps
	65 dB average @ 12 Amps
t Hum Modulation:	65 dB average

Standards Compliance

Scientific-Atlanta Multimedia Stretch Taps meet or exceed the following industry standards:

Mechanical
- SCTE IPS-SP-400 — F-port interface specification
- SCTE IPS-SP-420 — entry-port interface specification

Emissions
- FCC-Part 76, Subpart K
- EN 50083-2

Surge Resistance
- IEEE Category B1 C62.41-1991

Environmental
- ASTM G 53 — weathering specification
- ASTM B 117 — salt spray specification
- ASTM D 3170 — chip resistance specification

AC/RF Bypass Switch Performance

System Open Circuit Time	0 ms
Contact Resistance	10 mOhms max
Current and Voltage Carrying	12 A, 60/ 90 V AC
RF Frequency Range	5 to 1000 MHz
Operating Temperature	-40°C to +60°C

	5 MHz	550 MHz	750 MHz	1 GHz
Short Circuited Insertion Loss (dB)	0.1 max 0.05 typ	0.4 max 0.3 typ	0.5 max 0.4 typ	0.7 max 0.6 typ
Short Circuited Return Loss (dB)	40 max 53 typ	16 max 18 typ	16 max 17 typ	14 max 15 typ

ıltimedia Stretch Tap
—-way – Revision B

	Frequency	Tap Value															
		4 dB		8 dB		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29 dB	
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
ertion Loss	5	–	–	3.4	4.4	2.0	2.8	1.1	1.5	0.9	1.3	0.7	1.0	0.7	1.0	0.7	1.0	0.7	1.0
	40	–	–	3.2	4.3	1.5	2.5	0.9	1.4	0.7	1.0	0.5	0.8	0.5	0.8	0.7	0.8	0.6	0.8
	50	–	–	3.2	4.3	1.5	2.5	0.9	1.4	0.7	1.0	0.5	0.8	0.5	0.8	0.7	1.0	0.6	0.8
	450	–	–	4.1	5.2	2.2	3.0	1.6	2.2	1.4	1.9	1.1	1.5	1.1	1.5	1.1	1.5	1.1	1.5
	550	–	–	3.9	5.0	2.4	3.0	1.6	2.2	1.4	1.9	1.2	1.6	1.2	1.6	1.1	1.5	1.1	1.5
	750	–	–	3.6	4.7	2.2	2.8	1.8	2.3	1.6	2.1	1.3	1.8	1.3	1.8	1.2	1.6	1.2	1.6
	860	–	–	4.1	5.2	2.5	3.2	2.0	2.5	1.8	2.3	1.4	1.9	1.4	1.9	1.3	1.7	1.4	1.9
	1000	–	–	4.5	5.8	2.7	3.2	2.1	2.5	1.9	2.5	1.5	2.0	1.5	2.0	1.4	1.7	1.6	2.2
Loss	5	4.5		8.0		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
	40	4.5		8.0		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
tolerance ±1 dB)	50	4.5		8.0		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
	450	4.5		8.0		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
	550	4.5		8.0		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
	750	4.5		8.5		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
	860	4.5		8.5		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
	1000	4.5		8.5		11.5		13.5		17.0		19.5		22.5		25.5		29.0	
urn Loss	5	16		16		13		13		15		15		15		15		15	
, min)	10	16		16		16		16		16		16		16		16		16	
	50	16		16		16		16		16		16		16		16		16	
	750	14		16		16		16		16		16		16		16		16	
	860	16		16		16		16		16		16		16		16		16	
	1000	16		16		16		16		16		16		16		16		16	
-to Tap Isolation	5	18		18		18		18		18		18		18		18		18	
, min)	750	18		18		18		18		18		18		18		18		18	
	1000	18		18		18		18		18		18		18		18		18	
-to-Tap Isolation	5	–		20		20		20		25		25		35		35		35	
, min)	750	–		20		20		25		25		25		35		35		35	
	1000	–		20		20		25		25		25		35		35		35	

ess otherwise noted, specifications are based on measurements made in accordance with NCTA practices for measurements cable television systems and are referenced to 20°C. All ports terminated.

e Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. rt numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST2-4	562732	Multimedia Stretch Tap 2-Way @ 4 dB
	SAT ST2-8	562733	Multimedia Stretch Tap 2-Way @ 8 dB
	SAT ST2-11	562734	Multimedia Stretch Tap 2-Way @ 11 dB
	SAT ST2-14	562735	Multimedia Stretch Tap 2-Way @ 14 dB
	SAT ST2-17	562736	Multimedia Stretch Tap 2-Way @ 17 dB
	SAT ST2-20	562737	Multimedia Stretch Tap 2-Way @ 20 dB
	SAT ST2-23	562738	Multimedia Stretch Tap 2-Way @ 23 dB
	SAT ST2-26	562739	Multimedia Stretch Tap 2-Way @ 26 dB
	SAT ST2-29	562740	Multimedia Stretch Tap 2-Way @ 29 dB
Faceplate Assembly	SAT STF-2	573542	Multimedia Stretch Tap 2-Way Faceplate Assembly
Directional Coupler Module	SAT STM2-0	543487	Multimedia Stretch Tap Module @ 0 dB
	SAT STM2-4	562108	Multimedia Stretch Tap Module @ 4 dB
	SAT STM2-7	562109	Multimedia Stretch Tap Module @ 7 dB
	SAT STM2-10	562110	Multimedia Stretch Tap Module @ 10 dB
	SAT STM2-13	562111	Multimedia Stretch Tap Module @ 13 dB
	SAT STM2-16	562112	Multimedia Stretch Tap Module @ 16 dB

timedia Stretch Tap
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	Frequency	Tap Value													
		8 dB		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29 dB	
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
rtion Loss	5	–		3.4		2.0		1.1		0.9		0.7		0.7		0.7	
	40	–		3.2		1.5		0.9		0.7		0.5		0.5		0.7	
	50	–		3.2		1.5		0.9		0.7		0.5		0.5		0.7	
	450	–		4.1		2.2		1.6		1.4		1.1		1.1		1.1	
	550	–		3.9		2.4		1.6		1.4		1.2		1.2		1.1	
	750	–		3.6		2.2		1.8		1.6		1.3		1.3		1.2	
	860	–		4.1		2.5		2.0		1.8		1.4		1.4		1.3	
	1000	–		4.5		2.7		2.1		1.9		1.5		1.5		1.4	
.oss	5	8.0		11.0		15.0		17.0		20.0		22.5		25.5		28.5	
	40	8.0		11.0		15.0		17.0		20.0		22.5		25.5		28.5	
tolerance ±1 dB)	50	8.0		11.0		15.0		17.0		20.0		22.5		25.5		28.5	
	450	8.0		11.0		15.0		17.0		20.0		22.5		25.5		28.5	
	550	8.0		11.0		15.0		17.0		20.0		22.5		25.5		28.5	
	750	8.0		11.5		15.0		17.0		20.0		22.5		25.5		28.5	
	860	8.5		12.0		15.0		17.0		20.0		22.5		25.5		28.5	
	1000	8.5		12.0		15.0		17.0		20.0		22.5		25.5		28.5	
rn Loss	5	16		14		13		15		15		15		15		15	
min)	10	14		16		15		16		16		16		16		16	
	50	16		16		16		16		16		16		16		16	
	750	15		16		16		16		16		16		16		16	
	860	16		16		16		16		16		16		16		16	
	1000	16		16		16		16		15		15		16		15	
- Tap Isolation	5	18		18		18		18		18		18		18		18	
min)	750	18		18		18		18		18		18		18		18	
	1000	18		18		18		18		18		18		18		18	
to-Tap Isolation	5	–		25		25		25		25		35		35		35	
min)	750	–		25		25		25		25		35		35		35	
	1000	–		25		25		25		25		35		35		35	

otherwise noted, specifications are based on measurements made in accordance with NCTA practices for measurements le television systems and are referenced to 20°C. All ports terminated.

ultimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. umbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT ST4-8	562742	Multimedia Stretch Tap 4-Way @ 8 dB
	SAT ST4-11	562743	Multimedia Stretch Tap 4-Way @ 11 dB
	SAT ST4-14	562744	Multimedia Stretch Tap 4-Way @ 14 dB
	SAT ST4-17	562745	Multimedia Stretch Tap 4-Way @ 17 dB
	SAT ST4-20	562746	Multimedia Stretch Tap 4-Way @ 20 dB
	SAT ST4-23	562747	Multimedia Stretch Tap 4-Way @ 23 dB
	SAT ST4-26	562748	Multimedia Stretch Tap 4-Way @ 26 dB
	SAT ST4-29	562749	Multimedia Stretch Tap 4-Way @ 29 dB
Faceplate Assembly	SAT STF-4	573643	Multimedia Stretch Tap 4-Way Faceplate Assembly
Directional Coupler Module	SAT STM-0	543487	Multimedia Stretch Tap Module @ 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module @ 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module @ 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module @ 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module @ 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module @ 16 dB
	SAT STM-19	562113	Multimedia Stretch Tap Module @ 19 dB

Multimedia Stretch Tap
Eight-way – Revision B

	Frequency	Tap Value													
		11 dB		14 dB		17 dB		20 dB		23 dB		26 dB		29 dB	
		Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss (dB)	5	–	–	3.4	3.4	2.0	2.0	1.1	1.3	0.9	1.0	0.7	0.9	0.7	0.9
	40	–	–	3.2	3.3	1.5	1.5	0.9	1.0	0.7	0.8	0.5	0.8	0.5	0.8
	50	–	–	3.2	3.3	1.5	1.5	0.9	1.0	0.7	0.8	0.5	0.8	0.5	0.8
	450	–	–	4.1	4.2	2.2	2.5	1.6	1.7	1.4	1.6	1.1	1.2	1.1	1.2
	550	–	–	3.9	4.0	2.4	2.6	1.6	1.8	1.4	1.6	1.2	1.3	1.2	1.3
	750	–	–	3.6	4.2	2.2	3.1	1.8	2.0	1.6	1.7	1.3	1.6	1.3	1.6
	860	–	–	4.1	4.6	2.5	3.2	2.0	2.1	1.8	1.8	1.4	1.7	1.4	1.7
	1000	–	–	4.5	4.9	2.7	3.2	2.1	2.2	1.9	2.0	1.5	1.7	1.5	1.7
Tap Loss (dB) (max tolerance ±1 dB)	5	11.5		14.5		17.0		20.0		23.0		26.0		29.0	
	40	11.5		14.0		17.5		20.0		23.0		26.0		29.0	
	50	11.5		14.0		17.5		20.0		23.0		26.0		29.0	
	450	11.5		14.0		17.5		20.0		23.0		26.0		29.0	
	550	11.5		14.0		17.5		20.0		23.0		26.0		29.0	
	750	11.5		15.5		18.0		20.0		23.0		26.0		29.0	
	860	12.0		16.0		18.5		20.5		23.0		26.0		29.0	
	1000	12.5		16.5		18.5		20.5		23.0		26.0		29.0	
Return Loss (dB, min)	5	15		15		13		14		15		14		14	
	10	14		16		16		16		16		16		16	
	50	16		16		16		16		16		16		16	
	750	16		16		16		16		16		16		16	
	860	16		16		16		16		16		16		16	
	1000	16		16		16		16		16		16		16	
Tap-to-Tap Isolation (dB, min)	5	18		18		18		18		18		18		18	
	750	18		18		18		18		18		18		18	
	1000	18		18		18		18		18		18		18	
Out-to-Tap Isolation (dB, min)	5	–		25		25		25		30		35		35	
	750	–		25		25		25		30		35		35	
	1000	–		25		25		25		30		35		35	

Unless otherwise noted, specifications are based on measurements made in accordance with NCTA practices for measurements on cable television systems and are referenced to 20°C. All ports terminated.

The Multimedia Stretch Tap consists of a housing and faceplate assemblies and a plug-in directional coupler module. Part numbers are listed below for complete taps as well as for the major components.

Product	Model Number	Part Number	Description
Complete Tap Assembly	SAT STB-11	562751	Multimedia Stretch Tap 8-Way @ 11 dB
	SAT STB-14	562752	Multimedia Stretch Tap 8-Way @ 14 dB
	SAT STB-17	562753	Multimedia Stretch Tap 8-Way @ 17 dB
	SAT STB-20	562754	Multimedia Stretch Tap 8-Way @ 20 dB
	SAT STB-23	562755	Multimedia Stretch Tap 8-Way @ 23 dB
	SAT STB-26	562756	Multimedia Stretch Tap 8-Way @ 26 dB
	SAT STB-29	562757	Multimedia Stretch Tap 8-Way @ 29 dB
Faceplate Assembly	SAT STF-8	573544	Multimedia Stretch Tap 8-Way Faceplate Assembly
Directional Coupler Module	SAT STM-0	543487	Multimedia Stretch Tap Module @ 0 dB
	SAT STM-4	562108	Multimedia Stretch Tap Module @ 4 dB
	SAT STM-7	562109	Multimedia Stretch Tap Module @ 7 dB
	SAT STM-10	562110	Multimedia Stretch Tap Module @ 10 dB
	SAT STM-13	562111	Multimedia Stretch Tap Module @ 13 dB
	SAT STM-16	562112	Multimedia Stretch Tap Module @ 16 dB

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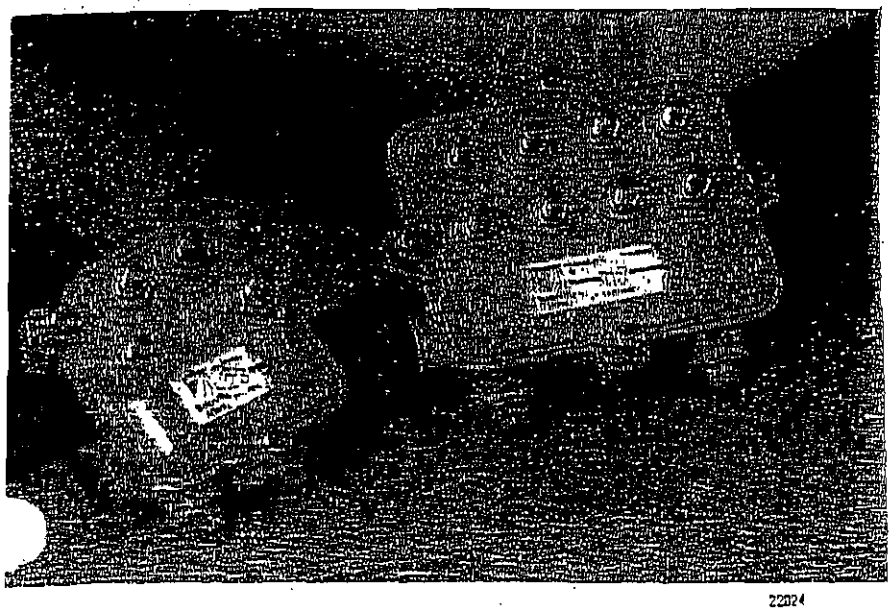
timedia Taps
vo-way, Four-way, Eight-way

Scientific-Atlanta



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day's advanced broadband rworks are being built to provide a de variety of voice, video, and data rvices. Hybrid fiber coax (HFC) ntinues to be the transmission edia of choice to provide integrated ultimedia services to the home. The FC network must now be capable bringing AC power to the bscriber residence to support itical customer premise equipment emands. Scientific-Atlanta's new mily of 1 GHz Multimedia Taps nd Passives have been designed to rovide the higher current, power assing capability required for elephony and other interactive ultimedia services.

Our unique two-step approach allows the broadband operator to deploy Multimedia Taps throughout the network during rebuilds or upgrades. These Multimedia Taps are then upgradeable to power passing capability with the simple addition of our patent-pending Power Distribution Unit (PDU). Incremental expenses are matched with new revenues because power passing tap upgrades are performed only at locations where a revenue generating telephony subscriber is located.

FEATURES

- Patent-pending AC/RF bypass switch to provide uninterrupted downstream subscriber service
- 12 amp through current rating to support network powered telephony
- Economical two-step upgrade to power passing–matches incremental expenses with new revenues
- AC Blocking capacitors on each port to minimize RF Signal distortions
- Surge-resistant™ circuitry (SRC) for maximum reliability
- 2, 4, 8-way capability for maximum design flexibility
- Housing backwards compatibility supports economical faceplate upgrades

ntific-Atlanta's Multimedia taps are rated for the 12
through current necessary to support network
ering of telephony. Also standard is a unique patent
g AC/RF bypass switch that insures uninterrupted
ce to down stream subscribers when the faceplate is
oved for servicing or PDU installation. Additionally,
Multimedia Taps utilize F-port blocking capacitors and
novative AC bypass coil design to minimize AC
adation of RF signals.

Backward compatibility saves you money and protects your investment in Scientific-Atlanta products. Any existing Scientific-Atlanta tap may be upgraded to power passing capability with only a faceplate change and the addition of a PDU.

CIFICATIONS

nsions

ay / 4-way	3.6 in. H x 3.6 in. W x 3 in. D 91.44 mm H x 91.44 mm W x 76.2 mm D
ay	4.25 in. H x 5.25 in. W x 3 in. D 107.95 mm H x 133.35 mm W x 76.2 mm D

anical

60T housing with powder coating for superior
ironmental protection.
ted and swaged extended F-ports for maximum resistance
noisture ingress.
plated brass F-ports to ensure a corrosion-resistant drop
rface.
nponent covers for additional protection of faceplate
ry during maintenance.
ile housing design permits aerial, pedestal, or MDU
unting schemes.
erating temperature from -40° C to +60° C.
l shielding minimum -100 dB.
ssure test at 10 psi for 60 seconds under water.

Standards Compliance

Scientific-Atlanta Multimedia Taps meet or exceed the following industry standards:

Bellcore
- TR - NWT- 1089 Level 1
- TA - NWT - 001503 Section 4.3

SCTE
- F-port interface specification IPS-SP-400

Underwriters Laboratories
- Standard 1459

NEC
- Class 3 circuits

IEEE
- Category B3/B2 C62.41-1991

IEC
- Standard 1000-4-5 (formerly 801-5/D)
- Standard 65

CENELEC
- Standards EN60065, EN50083-1

Specifications and product availability are subject to change without notice.

AC/RF Bypass Switch Performance

System Open Circuit Time	0 mS
Contact Resistance	10 mOhms Max.
Current and Voltage Carrying	10 A, 90 V AC
RF Frequency Range	5 to 1000 MHz
Insertion Loss	See below
Return Loss	See below
Operating Temperature	-40° C to +60° C

	5 MHz	550 MHz	750 MHz	1 GHz
Short Circuited Insertion Loss (dB)	0.05 Max. 0.23 Typ.	0.2 Max. 0.14 Typ.	0.4 Max. 0.17 Typ.	0.4 Max. 0.12 Typ.
Short Circuited Return Loss (dB)	40 Max. 52.8 Typ.	15 Max. 17 Typ.	15 Max. 17 Typ.	20 Max. 21 Typ.

Imedia Taps
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	Tap Value	4		8		11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
	Frequency																		
	5-10	-	-	3.2	3.0	1.9	1.8	1.3	1.0	1.1	0.8	0.8	0.5	0.8	0.5	0.8	0.5	0.8	0.5
	11-300	-	-	3.0	2.7	1.8	1.7	1.3	1.1	1.1	0.9	1.0	0.7	1.0	0.7	1.0	0.7	1.0	0.7
sertion Loss	301-400	-	-	3.6	3.0	2.5	1.9	1.8	1.3	1.6	1.1	1.4	0.8	1.4	0.8	1.4	0.8	1.4	0.8
(In-Out)	401-450	-	-	3.5	3.0	2.5	2.1	1.8	1.4	1.6	1.1	1.4	0.9	1.4	0.9	1.4	0.9	1.4	0.9
(dB)	451-600	-	-	3.6	3.0	2.6	2.3	1.8	1.7	1.6	1.2	1.4	1.1	1.4	1.1	1.4	1.1	1.4	1.1
	601-750	-	-	4.1	3.6	2.8	2.6	2.0	1.8	1.7	1.3	1.4	1.1	1.4	1.1	1.4	1.1	1.4	1.1
	751-900	-	-	4.0	3.7	3.3	2.9	2.2	2.0	1.9	1.5	1.7	1.4	1.7	1.4	1.7	1.4	1.7	1.4
	901-1000	-	-	4.5	4.0	3.4	3.1	2.4	2.2	2.0	1.8	1.9	1.6	1.9	1.6	1.9	1.6	1.9	1.6
Tap Loss	5-10	4	4	8.5	8	11	11	14	14	16.5	17	19.5	20	22.5	23	25.5	26	28.5	29
(+/- 1.5 dB)	11-1000	4	4	8.5	8	11	11	14	14	17	17	20	20	23	23	26	26	29	29
ness (+/- dB)	10-1000	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35
Isolation	5-10	20	23	20	25	20	23	20	23	20	23	20	23	20	23	20	23	20	23
(Tap-Tap)	11-750	22	25	20	25	22	25	22	25	22	25	22	25	22	25	22	25	22	25
(dB)	751-1000	20	22	20	25	20	22	20	22	20	22	20	22	20	22	20	22	20	22
	5-10	-	-	19	22	19	22	21	24	23	25	25	28	27	30	27	30	27	30
Isolation	11-600	-	-	25	27	25	27	26	30	30	32	32	34	34	36	34	36	34	36
(Out-Tap)	601-750	-	-	23	25	23	25	24	28	28	30	29	31	32	34	32	34	32	34
(dB)	751-900	-	-	21	23	21	23	23	26	26	28	28	30	30	32	30	32	30	32
	901-1000	-	-	20	24	20	24	21	24	24	28	26	28	28	30	28	30	28	30

quency Response	5 - 1000 MHz	Tap Return Loss	16 dB max.
wer Passing	12 Amps, 60-90 V AC	5 - 1000 MHz	18 dB typ.
pedance	75 Ohms		
m Modulation	70 dB avg. across passband @ 10 amps	In/Out Return Loss 5 - 1000 MHz	18 dB max. 22 dB typ.

TE: Insertion Loss specifications do not include Power Distribution Unit (PDU) contribution.

odel Number	Part Number	Description
AT MM 2-4	541741	Multimedia–2 Way @ 4 dB
AT MM 2-8	541742	Multimedia–2 Way @ 8 dB
AT MM 2-11	541743	Multimedia–2 Way @ 11 dB
AT MM 2-14	541744	Multimedia–2 Way @ 14 dB
AT MM 2-17	541745	Multimedia–2 Way @ 17 dB
T MM 2-20	541746	Multimedia–2 Way @ 20 dB
MM 2-23	541747	Multimedia–2 Way @ 23 dB
AT MM 2-26	541748	Multimedia–2 Way @ 26 dB
AT MM 2-29	541749	Multimedia–2 Way @ 29 dB

Taps

	Tap Value	8		11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
	Frequency																
	5 - 10	-	-	3.2	3.0	2.1	1.6	1.4	1.0	1.1	0.6	0.9	0.4	0.9	0.4	0.9	0.4
	11 - 300	-	-	3.0	2.8	2.1	1.7	1.4	1.1	1.1	0.9	0.9	0.7	0.9	0.7	0.9	0.7
oss	301 - 400	-	-	3.2	3.0	2.4	1.9	1.8	1.3	1.7	1.0	1.4	0.8	1.4	0.8	1.4	0.8
:)	401 - 450	-	-	3.6	3.3	2.5	2.0	1.9	1.4	1.7	1.1	1.4	0.8	1.4	0.8	1.4	0.8
	451 - 600	-	-	3.8	3.5	2.5	2.2	1.9	1.5	1.7	1.1	1.4	0.9	1.4	0.9	1.4	0.9
	601 - 750	-	-	4.3	4.1	2.8	2.3	2.0	1.7	1.7	1.2	1.4	1.0	1.4	1.0	1.4	1.0
	751 - 900	-	-	4.8	4.6	3.0	2.5	2.3	1.9	1.7	1.4	1.7	1.3	1.7	1.3	1.7	1.3
	901 - 1000	-	-	5.1	4.9	3.3	2.9	2.5	2.2	2.2	1.6	2.0	1.5	2.0	1.5	2.0	1.5
s	5 - 10	8	8	12	11.5	14.5	14	16.5	17	19.5	20	22.5	23	25.5	26	28.5	29
(B)	11 - 1000	8	8	12	11.5	14.5	14	17	17	20	20	23	23	26	26	29	29
- dB)	10 - 1000	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35
n	5 - 10	26	23	20	23	20	23	20	23	20	23	20	23	20	23	20	23
p)	11 - 750	20	26	19	26	20	26	20	26	20	26	20	26	20	26	20	26
	751 - 1000	20	27	19	27	20	27	20	27	20	27	20	27	20	27	20	27
	5 - 10	-	-	20	23	21	24	23	25	25	30	27	32	27	32	27	32
n	11 - 600	-	-	25	28	28	28	30	35	29	33	33	35	33	35	33	35
	601 - 750	-	-	23	26	26	30	28	30	27	33	31	33	31	33	31	33
	751 - 900	-	-	21	23	24	28	25	27	25	30	27	30	27	30	27	30
	901 - 1000	-	-	20	24	22	26	23	25	23	28	25	28	25	28	25	28

cy Response	5 - 1000 MHz	Tap Return Loss	16 dB max.
assing	12 Amps, 60-90 V AC	5 - 1000 MHz	18 dB typ.
ace	75 Ohms		
odulation	70 dB avg. across passband @ 10 amps	In/Out Return Loss 5 - 1000 MHz	18 dB max. 22 dB typ.

Insertion Loss specifications do not include Power Distribution Unit (PDU) contribution.

Number	Part Number	Description
M 4-8	541751	Multimedia–4 Way @ 8 dB
M 4-11	541752	Multimedia–4 Way @ 11 dB
M 4-14	541753	Multimedia–4 Way @ 14 dB
M 4-17	541754	Multimedia–4 Way @ 17 dB
4-20	541755	Multimedia–4 Way @ 20 dB
4-23	541756	Multimedia–4 Way @ 23 dB
M 4-26	541757	Multimedia–4 Way @ 26 dB
M 4-29	541758	Multimedia–4 Way @ 29 dB

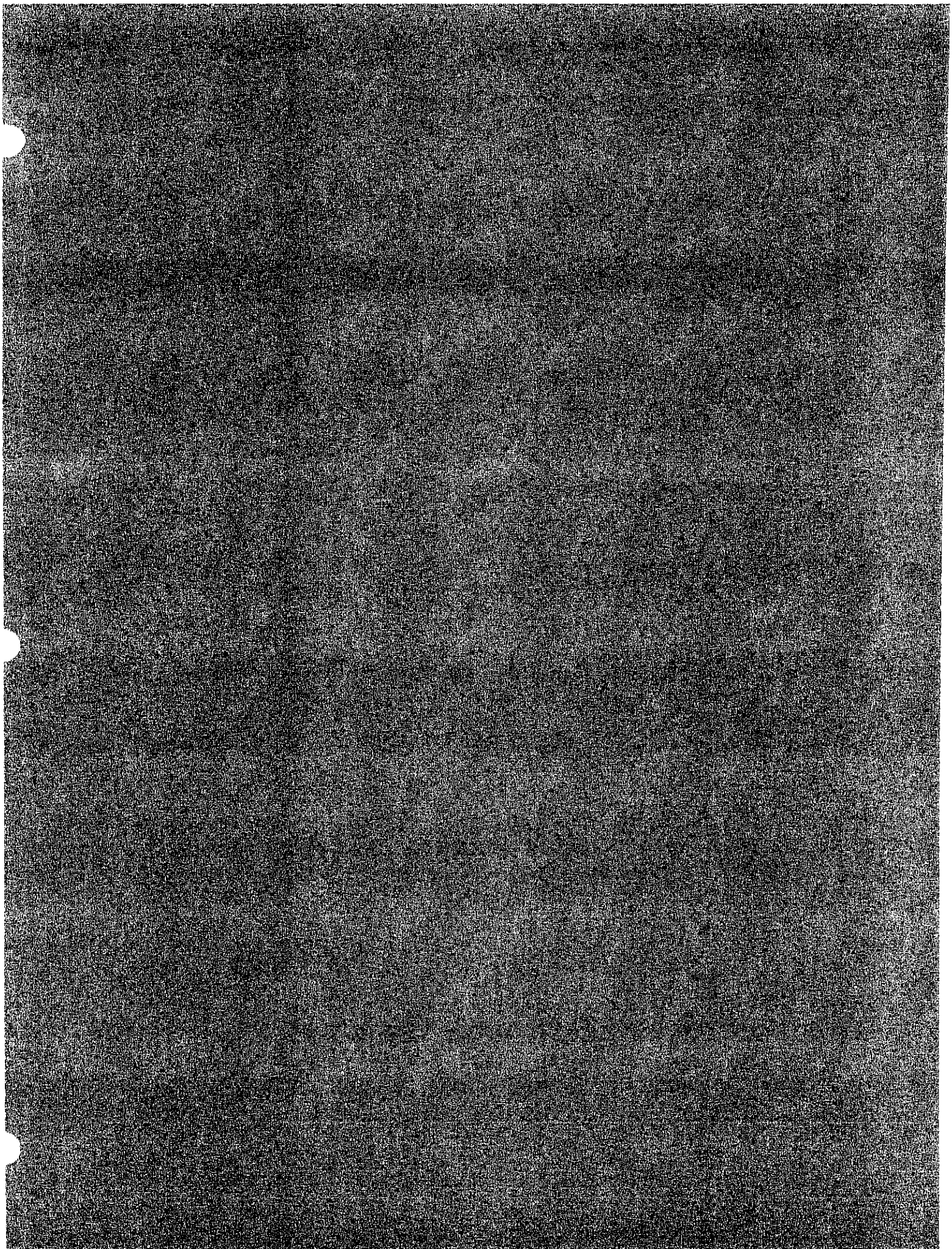
ultimedia Taps
Way
Revision E

	Tap Value	11		14		17		20		23		26		29	
		Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
	Frequency														
	5-10	-	-	3.7	3.0	2.2	1.7	1.3	1.0	0.9	0.6	0.9	0.6	0.9	0.6
	11-300	-	-	3.9	2.8	2.0	1.6	1.4	1.0	1.1	0.8	1.1	0.8	1.1	0.8
Insertion Loss	301-400	-	-	3.9	3.1	2.5	1.8	1.7	1.2	1.5	0.9	1.5	0.9	1.5	0.9
(In-Out)	401-450	-	-	4.1	3.3	2.6	2.0	1.9	1.4	1.6	1.1	1.6	1.1	1.6	1.1
(dB)	451-600	-	-	4.6	3.5	2.7	2.2	1.9	1.6	1.6	1.2	1.6	1.2	1.6	1.2
	601-750	-	-	5.1	4.4	2.9	2.5	1.9	1.8	1.6	1.4	1.6	1.4	1.6	1.4
	751-900	-	-	5.4	4.9	3.2	3.0	2.4	2.2	1.9	1.7	1.9	1.7	1.9	1.7
	901-1000	-	-	5.4	5.1	3.6	3.2	2.7	2.5	2.2	1.9	2.2	1.9	2.2	1.9
Tap Loss	5-900	11	11	15	15	17.5	17	20	20	23	23	26	26	29	29
(+/-1.5 dB)	901-1000	11.5	11	15.5	15	18	17	20.5	20	23.5	23	26.5	26	29	29
eviness (+/-dB)	10-1000	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35	0.5	0.35
Isolation	5-10	20	22	20	22	20	22	20	22	20	22	20	22	20	22
(Tap-Tap)	11-750	20	24	20	22	20	24	20	24	20	24	20	24	20	24
(dB)	751-1000	18	20	18	20	18	20	18	20	18	20	18	20	18	20
	5-10	-	-	20	24	19	26	21	26	26	35	26	35	26	35
Isolation	11-600	-	-	25	30	25	30	28	30	31	32	31	32	31	32
(Out-Tap)	601-750	-	-	23	27	23	28	25	28	28	30	28	30	28	30
(dB)	751-900	-	-	21	27	21	28	24	28	27	30	27	30	27	30
	901-1000	-	-	20	25	20	28	22	28	25	28	25	28	25	28

equency Response	5 - 1000 MHz	Tap Return Loss	15 dB max.
ower Passing	12 Amps, 60-90 V AC	5 - 1000 MHz	17 dB typ.
npedance	75 Ohms		
Jm Modulation	70 dB avg. across passband @ 10 amps	In/Out Return Loss 5 - 1000 MHz	16 dB max. 18 dB typ.

OTE: Insertion Loss specifications do not include Power Distribution Unit (PDU) contribution.

odel Number	Part Number	Description
4T MM 8-11	541760	Multimedia–8 Way @ 11 dB
4T MM 8-14	541761	Multimedia–8 Way @ 14 dB
4T MM 8-17	541762	Multimedia–8 Way @ 17 dB
4T MM 8-20	541763	Multimedia–8 Way @ 20 dB
4T MM 8-23	541764	Multimedia–8 Way @ 23 dB
MM 8-26	541765	Multimedia–8 Way @ 26 dB
4T MM 8-29	541766	Multimedia–8 Way @ 29 dB



PAGE 8

TIME WARNER CABLE - SYRACUSE DIVISION

Converter and Trap Specifications

System Name : Syracuse ***Date*** : 08/01/2006

All testing is done at the end of a 100ft drop cable (RG-6) without a converter. Converter specification sheets are attached for "After Converter" numbers, if so desired.

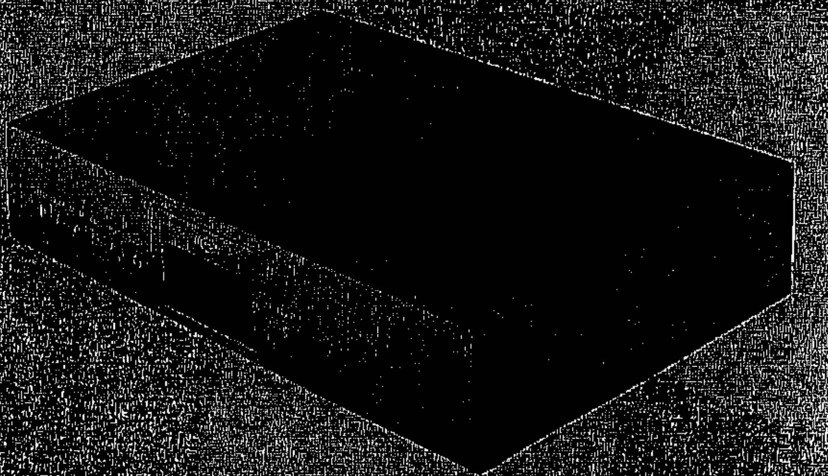
Instructions:

Attach a copy of the manufacturer's specifications covering all converters used in the system. The specification sheet must show the converters carrier- to- noise (C/N) and distortion figures. Attach a copy of the manufacturer's specifications covering all traps that are in use in the cable plant. This should include basic traps, individual channel traps, high pass filters, etc.

TECHNICAL SPECIFICATION //

PACE 500 DIGITAL CABLE GATEWAY

Delivering the future in home entertainment



INCREASING VALUE FOR CABLE OPERATORS

- Expanding Digital Services
- Increasing Subscriber Satisfaction
- Improving Subscriber Retention
- Decreasing Subscriber Churn
- Decreasing Hardware Failure

DEPLOYMENT EXPERTISE

- Set-top Distribution Experience
- Testing/Staging Enabled Freight Design
- Smart Packaging

INNOVATIVE HARDWARE

- Engineered for Reliability
- Designed to be Smaller and Lighter
- Optimized to Run Cooler and more Efficiently

INNOVATIVE TECHNOLOGY

- Future proof – Extendable Architecture
- Non-Proprietary OS, EPG, and API

PACE COMMITMENT

- Pace global production capacity
- 24 Hour Support from In-house Network Support Team
- Dedicated Account Management Teams
- Cost Down Pricing Models

PACE: YOUR DIGITAL PARTNER

Pace has worked with major cable operators and MSOs in the US and Europe and helped them successfully deploy digital cable. In fact, Pace has successfully delivered over 18 million set-top boxes to operators around the world since 1982, including the first commercially deployed DAVIC-equipped set-top boxes in 1997.

Pace has listened to its US customers when it comes to providing solutions to real world problems. One example is our unique packaging for the Pace 500. It allows our customers to easily access and stage the units without unpacking the equipment. With such attention to detail, Pace is driving the digital television market forward. Quite simply, Pace has the skills and the experience to enable cable operators to deliver solutions that are right for them and their subscribers.

DIGITAL CABLE SOLUTIONS

Cable operators and MSOs are in a prime position to take advantage of digital broadcasting opportunities. With a broadband connection to the home, cable networks can deliver a rich mix of compelling services such as digital television, interactive services, high-speed Internet, and telephony. Tomorrow's digital opportunities require today's best technology. Pace continues to be a developer of the world's most advanced set-top boxes, with an extraordinary focus on hardware and software engineering. Pace constantly produces technologically advanced and reliable boxes. And, with unparalleled global deployment experience, Pace partners with its customers to insure successful digital deployments.

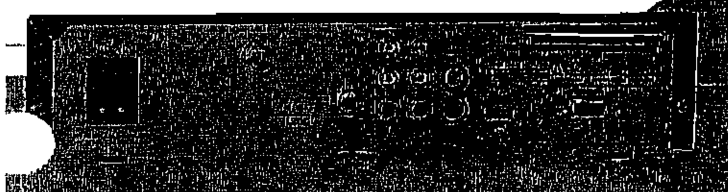
WHY SHOULD OPERATORS HAVE TWO SOURCES FOR SET-TOP BOXES?

- Drives Innovation and Creates Pricing Pressure
- Reduces Risk of Supply Shortages
- Improves Delivery Flexibility
- Decreases Reliance on Specific Chip Sets

WHY PACE?

Just ask Time Warner. "We are pleased to add a supplier like Pace, which has a worldwide reputation for innovation, quality, efficiency and on-time delivery. Pace was an obvious choice."

[illegible]
Advanced Engineering
Time Warner Cable



PRODUCT DETAILS

- PowerKey™ Network Compliant
- DAVIC Return Path
- Durable, Efficient Design

The Pace 500 Digital Cable Gateway provides support for digital and analog services delivered through a hybrid fiber/coax (HFC) network with full Scientific-Atlanta PowerKey™ interoperability.

The 500 is designed for reliability with a patented heat sink, side vents (replacing vulnerable top vents), and intelligent Smart Card location on the back. API, EPG and OS flexibility can allow cable operators and infrastructure vendors to easily develop custom solutions around the Pace 500.

The Pace 500 Digital Cable Gateway is designed, produced, and delivered with the unique needs of digital cable subscribers and operators in mind.

PACE 500 SPECIFICATIONS

MPEG-2 MP@ML QAM 64/256 cable receiver with video resolution of 720 x 480

DAVIC 1.2 Return Path data transmitter enables two-way services: VOD, Internet access, and Email

Analog and Digital Service tuner allows both analog and MPEG-2 digital channels

SOFTWARE FLEXIBILITY
MSO-specified application and EPG support
Support for VOD

CONDITIONAL ACCESS
PowerKey
Harmony
DVB CSA
Support for 7816-3 Smart card reader

Macrovision v7.01 copy protection allows MSOs to restrict unauthorized copying of digital services

32-BIT RISC PROCESSOR
Dual 81 MHz 86 MIPS Processors

MEMORY CAPACITY
16 Mbytes Maximum System DRAM
8 Mbytes Maximum FLASH
2 Mbytes MPEG-2 Video SDRAM

USB port with option of dual port allows interconnection with home consumer devices

RS-232 Data Port for flexibility

INTERFACES
Audio & Video In and Out
S/PDIF AC-3 Throughput
Dolby Digital S/PDIF Output
S-Video Output
CH 3 & 4 VHF Modulator
Infra Red Blaster Port (for VCR)

OTHER FEATURES
Energy Star Qualified
ISO 9001/9002 Certified
Smaller, Compact Design
Able to Stack and Return Master Shipping Carton
Up to 8 Graphics Surfaces
Closed Caption Support

PACE MICRO TECHNOLOGY AMERICAS

ENABLING DIGITAL

PACE

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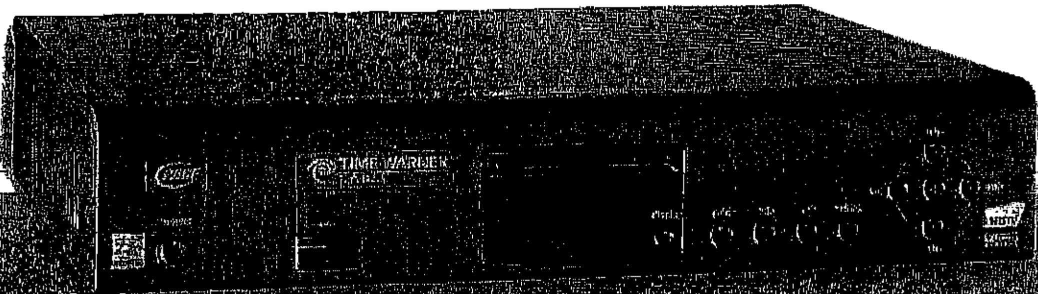
www.pacemicro.com

Simply better.

Pace DC-550 HD Digital Cable Set-top

TECHNICAL SPECIFICATION



Features

Performance

- 175MIPs main processor plus 85MIPs graphics pixel engine
- 260MIPs aggregate total
- Run-from-Ram code execution

High Definition with the most responsive performance the Pace DC-550 HD employs industry leading processing speed with sophisticated Run from Ram execution and generous applications memory provision as standard.

Compact and Unobtrusive

An attractive design and less than 12 inches wide. This will cater to consumers who want products that don't take up lots of space in their entertainment centers, and cable operators who expect efficient use of space in their warehouses and trucks.

Energy Star Compliant

Set-tops that meet the Energy Star specification consume up to 20% less electricity than a conventional set-top while delivering the same quality and features, saving your customers money on their energy bills.

Choice

- Drives Innovation
- Creates Pricing Pressure
- Reduces Risk of Supply Shortage
- Improves Delivery Flexibility
- Decreases Reliance on Specific Silicon Solutions

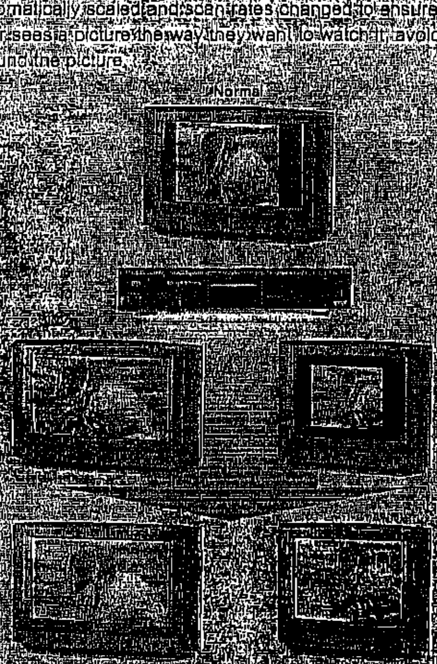
Enhanced and Secure Connectivity

- Built in DVI-D 1.0 with HDCP capability providing secure digital display connectivity today, saving a truck roll in the future
- No resolution downgrades on secure connection
- Includes component inputs for loop-through
- Support for 1394 (optional)

Advanced Video Scaling

The Pace DC-550 HD has powerful scaling ability allowing both Standard Definition and High Definition program content to be automatically scaled and scan rates changed to ensure the user sees a picture the way they want to watch it, avoiding bars around the picture.

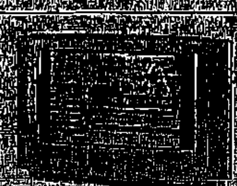
Normal

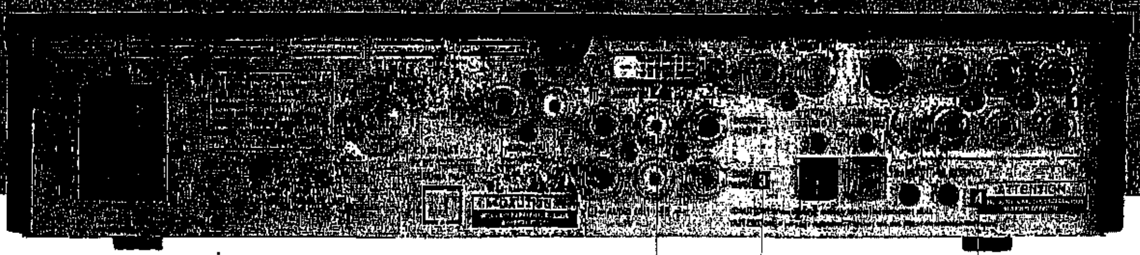


Stretch and zoom both HD and SD content for widescreen HDTV sets

Maximize image on a standard 4:3 HDTV set

The Pace DC-550 HD also scales video to the upper right corner of the program guide for both Standard Definition and High Definition video content.





1 Component video loop-through connectivity
Component video loop-through allows customers to simply connect consumer electronics devices such as a component video DVD player through their set-top to their HDTV, especially valuable since some bigger HDTVs have only one set of component video inputs.

2 Digital Quality and Content Security as standard
DVI-HD display connectivity is standard with HDCP copy protection capability, and optionally available dual IEEE 1394 [illegible] with DTCP (Digital Transmission Content Protection).

3 Optical and electrical audio connectivity with loop-through
Loop-through is important as many TV and home theater audio systems do not have sufficient built-in connectors. Many home theater audio systems use optical connectivity and will not work with boxes that only support electrical audio outputs. The digital audio output on the Pace DC-550 HD is always live for all analog and digital content.

4 Hiding the set-top
The Pace DC-550 HD includes an IR receiver socket into which an optional IR receiver on a cable tether can be plugged, so customers can place their set-top out of sight and still use their remote control to operate it, providing consumers more options for installation.

Design
PowerKey Network Compliant
DAVIC Return Path
Durable and Ortho Design

The Pace DC-550 HD Digital Cable set-top provides support for digital and analog services delivered through a hybrid fiber/coax (HFC) network with full Scientific Atlanta PowerKey interoperability. The Pace DC-550 HD is designed for reliability with a patented heat sink for our core processor and innovative silicon tuners. Pace also recognizes that the life of a set-top is not an easy one with each product typically passing through multiple homes over time. The Pace DC-550 HD enclosure uses an advanced material design and is self colored ABS and polycarbonate compound. Pace has also combined a non-brittle thermoplastic rubber front with a hybrid snap fit to make sure the feet stay in place and firmly attached. These advanced materials minimize the appearance of wear and tear and reduce the operator's cost of refurbishment when cycling set-tops due to churn. The Pace DC-550 HD Digital Cable set-top is designed, produced and delivered with the unique needs of digital cable subscribers and operators in mind.

Support
Pace prides itself on having successfully delivered our digital solutions to the largest cable operators in the world, including both Time Warner Cable and Comcast Cable. Along the way we have built a strong reputation in North America by supplying top quality, reliable and innovative solutions to our cable operator customers. We continue to provide 24 hours a day, 7 days a week customer support to ensure successful digital deployments. We have some of the most experienced field engineers in the industry positioned across the country with a proven track record and a wealth of experience in North American cable deployments. Pace has the ability to bring our products online quickly and reliably.

Technology

HARDWARE FEATURES

[illegible]

SOFTWARE FEATURES

[illegible]

PACE

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www.pacemicro.com

High definition