

MediaStar Multi-Tuner ATSC / QAM LAN-Caster Gateway for Digital Terrestrial / CATV Re-Broadcast over IP (795)



The MediaStar multi tuner / multi de-mux LAN-Caster Gateways are the solution for ATSC Digital Terrestrial and QAM CATV reception.

Key Features

- > Supports SD,HD & UHD TV transmissions (ATSC, QAM)
- > Select channels by multiplex or by channel name
- > Unrestricted number of TV channel IP streams from up to 5 RF multiplexes
- > All original PIDs included in each stream
- > Optional stream encryption
- > Auto configuration with MediaStar Media Manager Software
- > DSCP tagged streams for QoS enabled networks
- > IP command pass through and IR Routing support
- > Easy software upgrade path and feature enablement
- > Low power consumption (17W)

Models

- > 795-2-ATSC-QAM
- > 795-3-ATSC-QAM
- > 795-4-ATSC-QAM
- > 795-5-ATSC-QAM

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The MediaStar LAN-Caster streams live Digital Terrestrial or CATV transmissions such as news, sport and entertainment directly onto your IP network and is a 'hot swappable' blade that easily fits into a MediaStar Powered Chassis (Model 770) or single unit appliance case (Model 769).

When connected to an ATSC 'off air' antenna or a QAM CATV signal the unit can stream numerous TV and Radio channels extracted from up to five RF multiplexes to any PC or Mac using the MediaStar Media Portal (Part 470) or to video screens equipped with MediaStar Media Players (Models 780 or 782).

Initial network configuration and network setup can be achieved by using the front panel buttons and the LCD status display. For local headend monitoring a screen may be attached to the unit's rear panel HDMI connector.

For stream setup, simply check the TV channels that you want to stream and they will then be passed onto the IP network for display on screens and PCs. Multiple 795 units within a larger system can be under full management control using the MediaStar Media Manager software (Model 462).

Where the incoming transmissions are encrypted, the stream can be passed onto the network with its original encryption, but IPTV decoders or PC software will have to be able to decrypt the stream before it can be viewed.

Front panel RS-232 and USB Comms connectors allow local connectivity and can also be utilised to pass IP command signals generated by remotely located Touch Screens and management systems, for control of headend located RS-232 devices.

An Infra-red blaster enables IR commands from 3rd party RCUs to be passed back from any display screen equipped with a MediaStar Media Player (Models 780 or 782) to the 795 for the control of other headend located IR devices.

This coupled with maintenance free operation, small physical size and low power consumption make the 795 ideally suited for both large scale distributed applications or simple single unit deployments.

Specifications

Whats in the box	<ul style="list-style-type: none"> • 795- ATSC-QAM LAN-Caster gateway blade • CAT5/6 patch cable (2.0M)
SYSTEM INPUT	<p>RF Input:</p> <ul style="list-style-type: none"> • RF input of Digital Terrestrial (ATSC) or Cable Television (QAM) TV and Radio channels via a 75ohm type F female connector
	<p>RF Frequency Range:</p> <ul style="list-style-type: none"> • 42 to 870 MHz (center frequency)
	<p>RF Input level:</p> <ul style="list-style-type: none"> • ATSC: -36 to +28 dBmV • QAM: -34 to +27 dBmV
	<p>Demodulation:</p> <ul style="list-style-type: none"> • ATSC A/53 compliant 8/16 VSB • ITU-T J.83 Annex B 64/256 QAM
	<p>Output streams:</p> <ul style="list-style-type: none"> • Unrestricted number of TV channel IP streams from up to 5 RF multiplexes • One unicast or multicast stream per TV channel • Maximum throughput all channels, all multiplexes: 250 Mbps
NETWORK & INTERFACES	<p>LAN:</p> <ul style="list-style-type: none"> • RJ45 802.3 100/1000 Base-T Auto MDIX • Static or DHCP IP Address • DSCP stream tagging for QoS
	<p>Network Protocols:</p> <ul style="list-style-type: none"> • UDP, TCP, ARP, DHCP, ICMP, IGMP V2/V3, HTTP, Telnet, SNMP, SMTP, DSCP
	<p>RS-232 Port:</p> <ul style="list-style-type: none"> • Rx, Tx, CTS, RTS up to 11,5200 Baud configured for SIPI external configuration/control OR IP to RS-232 bidirectional pass through for external device control
	<p>Infra-Red Blaster:</p> <ul style="list-style-type: none"> • 3.5mm Jack socket supporting Sky, Sky+ and SkyHD IR formats with web page or IP command remote activation • 30 - 56KHz modulated IR waveforms supported • Remote IP command generates any IR remote control keypress
	<p>3rd Party Control Interface:</p> <ul style="list-style-type: none"> • RS-232, text based SIPI protocol • IP, text based SIPI protocol
CONFIGURATION & MONITORING	<p>Configuration:</p> <ul style="list-style-type: none"> • Local status monitoring and IP setup from front panel buttons and LCD display • Local HDMI output port for monitoring and USB Keyboard / Mouse connection to enable easy local configuration (screen and Keyboard/Mouse not included) • Unit front and rear panel 'locator' LED function with both local and web page activation to easily identify a single unit within a rack • On board web server and web page menus for use with remote computer browser • Fully integrated with Media Manager software
	<p>Temperature Monitoring:</p> <ul style="list-style-type: none"> • Internal operating temperature available remotely via web interface
	<p>Event Monitoring:</p> <ul style="list-style-type: none"> • Key operational warnings reported via SNMP traps sent to third party SNMP manager (MIB available on request) • Automatic e-mail of Event log files via external SMTP server
	<p>Software:</p> <ul style="list-style-type: none"> • Fully upgradable with ONLY protected Cabletime software from an HTTP server or local USB memory key

OTHER INFORMATION	Power Dissipation: <ul style="list-style-type: none">• 17 W (from MediaStar rack chassis)
	Weight: <ul style="list-style-type: none">• 0.5Kg; 1.3 Lbs (795 Blade only)
	Dimensions: <ul style="list-style-type: none">• W 4.1 H 12.9 D 22.5cm; W 1.6 H 5.0 D 8.6" occupies 1 slot of a MediaStar rack chassis
	Environmental: <ul style="list-style-type: none">• Operating temperature 0° - 40°C; 32° - 104°F (770 rack ambient)
	Approvals: <ul style="list-style-type: none">• FCC, TUV Approved