

MediaStar IP Multi-Mux Gateway for Single and Multi-Channel Transport Stream Reception & Re-transmission (796)



The MediaStar IP Multi-Mux provides an efficient and robust way to receive multiple IP video muxes and then re-distribute selected IP video streams over a LAN.

Key Features

- Gateway device for external IP delivered TV channels
- Efficiently stream up to 20 selected channels across your LAN
- Provides AES content protection required by content owners
- Full integration with MediaStar Media Manager software for simple setup and live monitoring
- Hot swappable blade with retained settings configuration

Models

- 796

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When live TV channels are being delivered to a commercial customer by a service supplier such as a Telco or Cable Company, they are typically provided in an IP format as unicast or multi-cast multi-channel MPEG transport streams.

On the customer's premises, these streams can be routed directly to the MediaStar IP Multi-Mux Gateway (model 796) which can then analyse them and derive the incoming stream parameters. The TV channel names will be shown, and an administrator can then select which of these they wish to re-distribute using a simple browser-based GUI.

The selected TV channel streams will be **AES encrypted** so that the video and audio content is protected as it is re-distributed as individual multicast streams across the LAN. Encryption is increasingly important as content providers insist on full content protection right up to the viewing device.

End users can view the content on large screen displays or PCs and tablets using **MediaStar Media Players** (models 780 or 782) or the **MediaStar Portal Player** software (models 470 or 477) respectively. These pull the multicast streams from the LAN when users select a specific channel to watch, decrypt the stream and then display the live TV content at its original quality.

Each 796 Multi-Mux unit can operate as a free-standing unit or networked under the control of the **MediaStar Media Manager** software (model 462). In this case the Multi-Mux unit will automatically inform the Media Manager software when TV channels are made available, so that it can make new media icons. These icons can then be dropped onto playlists or channel selection lists that are allocated to individual displays or PCs within the MediaStar system ecosystem.

The IP Multi-Mux is a '**hot swappable**' blade based processor module that can be plugged into a **MediaStar Multi-slot 3RU Rack** (models 770 or 770-DR) or it can be used in a **MediaStar Single Slot Appliance Chassis** (model 769). It has a single network interface which can receive and transmit a total of 600 Mbps and can simultaneously encrypt up to 20 TV channels. Typically, the 796 should be connected to a network switch which has VLAN segregation and security to isolate the internal corporate LAN from the external network source to preserve network integrity.

Specifications

What's in the box	<ul style="list-style-type: none"> • 796 Multi-Mux Gateway blade • RJ45 patch lead (2m)
SYSTEM INPUTS & OUTPUTS	<p>Inputs:</p> <ul style="list-style-type: none"> • Single program unicast or multicast UDP MPEG2 transport streams. Any audio or video payload. <p>Outputs:</p> <ul style="list-style-type: none"> • Unicast or multicast UDP MPEG2 transport streams (with IP address translation). AES encrypted. • •
Network & Interfaces	<p>LAN and Network Protocols:</p> <ul style="list-style-type: none"> • RJ45 802.3 100/1000 Base-T Auto MDIX. • Static or DHCP IP Address. • TTL and DSCP stream tagging for QOS <p>Protocols:</p> <ul style="list-style-type: none"> • UDP, TCP, ARP, DHCP, ICMP, IGMP V2/V3, NTP, HTTP, Telnet, SNMP, SMTP, DSCP. <p>USB Port:</p> <ul style="list-style-type: none"> • USB 3.0 host port for keyboard and mouse. • Software upgrade via memory stick with ONLY protected MediaStar software. <p>RS-232 Port for 3rd Party Control Interface:</p> <ul style="list-style-type: none"> • Rx, Tx, CTS, RTS up to 11,5200 Baud. SIPI external configuration/control OR IP to RS-232 bidirectional pass through for external device control
Configuration & Monitoring	<p>Configuration:</p> <ul style="list-style-type: none"> • Fully integrated with Media Manager software • Local status monitoring and IP setup from front panel buttons and LCD display • On board web server and web page menus for use with remote computer browser • Rear panel HDMI port for incoming stream monitoring. • Unit front and rear panel 'locator' LED function to easily identify a single unit within a rack <p>Event Monitoring:</p> <ul style="list-style-type: none"> • Internal operating temperature available remotely via web interface • 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 • Network bandwidth and CPU monitors are provided.
OTHER INFORMATION	<p>Power Dissipation & Environmental:</p> <ul style="list-style-type: none"> • 17 W (from MediaStar rack chassis). • Operating temperature; 0° - 40°C; 32° - 104°F (Housing ambient) <p>Weight and Dimensions:</p> <ul style="list-style-type: none"> • 0.5Kg; 1.3 Lbs (796 Blade only) 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 / appliance housing <p>Approvals:</p> <ul style="list-style-type: none"> • FCC, CE, UKCA, RCM, TUV, CB and UL approved as part of the MediaStar 770 or 769 rack chassis