

TV over Cat-5/UTP

➤ MediaStar Pro Video Hub 500

Models: 500/SL - Single RF Trunk Input
500/DL - Dual RF Trunk Input

The MediaStar Pro 500 series video hub delivers up to 200 channels of AV/TV to multiple users over a Cat-5/UTP cabled infrastructure.

The hubs are available in two versions; Part 500/SL for use with 560 SPTL or 560 SNTL Quad Cards (supporting 90 PAL or 100 NTSC modulated TV channels) and Part 500/DL for use with 560 DPTL or 560 DNLT Quad Cards (supporting 180 PAL or 200 NTSC modulated TV channels).

A single hub can house up to 16 Outlet Cards which in turn support service to 64 individual receiver units or viewing stations. Multiple hubs can be co-located or geographically dispersed to service 1000s of users.

Each hub is a 7U rack mountable unit with 16 card slots, an LED hub status indicator card, an internal PSU, control electronics, RF input(s) and control interfaces. It also hosts a second PSU providing line power to the MediaStar receiver units connected at the viewing locations.

The 560 Quad cards are 'hot swappable' and have four independent front panel outputs (RJ45 sockets) to allow interconnection with the MediaStar Receiver Units at distances of up to 800 m (2,600 ft) across the Cat-5/UTP cabling infrastructure.

Screens and displays are supported by MediaStar Pro Micro TV Settop Receiver Units (Part 507), Micro PC Desktop Receiver Units (Part 508), and Micro Access Receiver Units (Part 512) to enable versatile and scalable TV/AV delivery serving touch screen panels, PC, or Plasma/LCD displays.

An RF Headend (Part KUF series) combines incoming satellite signals and MATV/CATV feeds, with local content from decoder units, (such as the MediaStar Evolution 780 or 760/xM), cameras, DVDs and VCRs to form an RF backbone for distribution in to the MediaStar Pro Hubs.

Configuration, control and monitoring of MediaStar Pro Hubs can be easily accomplished via IP with an IP to serial converter (Part 468-100) or hard wired using an RS232 or RS485 connection from the video hubs to a MediaStar Pro Hub Controller loaded with MediaStar Pro Administration software (Part 700C).

Included within the scope of delivery:

500/SL or DL Pro Hub, Rack Mounting kit, 2 x UK power leads, 2 x US power leads, 2m RS232 Cable, RJ45 terminator, 2m Cat-5 patch cable, 1m Type F coax cable, IR sensor module (Part 911-4141), Infra Red Handset (Part 590/1Y).



Specifications

Video Standards

- Supported PAL or NTSC

Quad Card Output

- Four x RJ 45 Sockets
- CAT-5 Drive distance: to 800m/2600ft
- Baseband Video with Audio 1V P-P balanced into 100Ω
- 28Vdc Line Power to Receiver Units

RF Trunk Input Format

- Modulated RF, 47 to 862 MHz

RF Trunk Input Connector

- Type F Female 75Ω

RF Trunk Input levels

- 500/SL PAL 34-36 dBmV
NTSC 36-38 dBmV
- 500/DL PAL 36-38 dBmV
NTSC 40-42 dBmV

Hub to Pro Controller Protocol

- Proprietary, RS232 / RS485

Hub to Pro Controller Data Rate

- User Definable 9.7-57.6 kB/s

Hub data connector types

- RS232 9 Pin D type Female
- RS485 2x RJ45 Female

Hub to Pro Controller Link Length

- RS232 10m max
- RS485 1,200m max

Power: 2 x 3 pin IEC Male, 100-240V AC, 4/2 A

Power Dissipation: 250W - Fully Populated

Weight: 13.2Kg /29lb 1 oz

Shipping Weight: 15.8Kg /34lb 10z

Dimensions: 7U 19" Rack Mount, H 310 x W 483 x D 510mm

Environmental: 0-40°C, 32-104°F

Approvals: CE, UL, FCC part 15 class A

Companion Models & Accessories:

- 560 SPTL Quad Outlet Card
- 560 SNTL Quad Outlet Card
- 560 DPTL Quad Outlet Card
- 560 DNLT Quad Outlet Card
- 507 Micro Settop TV Receiver Unit
- 508 Micro Desktop PC Receiver Unit
- 512 Micro Access Touch Panel Receiver Unit
- 590/1Y Infra Red Remote Control
- 440-7005 Pro Hub Amplifier
- 468-100 IP to Serial Comms Converter
- 700C Pro Controller and Administration Software
- 461 Administration Software Suite

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