

> Data Sheet - 784 DVB-S/S2 LAN-Caster

The MediaStar Evolution range of DVB-S LAN-Casters are a powerful and ultra reliable, solid state "out of the box" solution for satellite TV reception and when used in conjunction with the Mediastar DVB-T LAN-casters and MPEG encoders, will meet your entire IP Television Headend, Digital Signage and Digital Media encoding and distribution requirements.



Included within the scope of delivery:

- 784 DVB-S/S2 Blade
- Quick Start Guide
- RJ45 Cat-5 patch cable

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Product Specification

System Input

RF input	- RF input of Digital Satellite Television (DVB-S2) TV and radio channels via a 75ohm type F female connector
RF Frequency range	- 950 to 2150 MHz
RF Input level	- -65 to -25 dBm
RF loophthrough	- F type female connector (75 Ohms), unity gain (+/-5 dB), for connecting additional MediaStar DVB-S2 LAN-Caster units to multiplexes on the same polarity and frequency band.
LNB voltage	- 13/18 V, 22 KHz signalling, Maximum current drain - 400mA (short circuit protected) - Maximum 770 Rack LNB current 2,350 mA - DiSEqC v1.0, 1.1

Demodulation and stream protocols

DVB-S demodulation	- QPSK, Coding Rate: 1/2, 2/3, 3/4, 5/6, 6/7, 7/8 - FEC: Reed Solomon/Viterbi error correction
DVB-S2 demodulation	- QPSK, 8PSK, Coding Rate: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 - FEC: LDPC, BCH
Output streams	- Up to 15 Multicast or Unicast streams from a single RF DVB multiplex - Maximum throughput 85 Mbps - Select individual TV and radio channels or the entire multiplex - Select channels by multiplex or by channel name - Elementary stream data-type filtering: audio, video, data, MHEG and subtitles

Cam Support

- CI CAM modules supported with all common decryption standards (Irdeto, Viaccess, Conax, Nagravision etc.)
- Single and professional multi-channel CAMs supported (processing 2, 8 & 12 simultaneously encrypted channels)
- PCMCIA connector, 5V and 3V CAMs supported

Network and interfaces

LAN	- RJ45 802.3 10/100 Base-T Auto MDIX - Static or DHCP IP Address - DSCP stream tagging for QoS
Network Protocols	- UDP, TCP, ARP, DHCP, ICMP, IGMP V2, HTTP, Telnet, SNMP, Syslog, SAP/SDP, SMTP, DSCP
USB Comms	- USB 1.1 Serial Comms for external configuration and or control
RS232 Port	- Rx, Tx, CTS, RTS up to 11,5200 Baud Configured for SIPI external configuration/control OR IP to RS232 bidirectional pass through for external device control

Infra-Red Blasters	- 2 separate outputs supporting Sky, Sky+, SkyHD IR formats with web page or IP command remote activation. - Remote IP command generates any IR remote control keypress - 30 - 56 KHz modulated IR waveforms supported
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Configuration and monitoring

Unit configuration	- Via On board web server using laptop or tablet - Via front panel buttons and LCD status display - Remotely using MediaStar Media Manager software
Control Interface	- RS232, USB 1.1 serial interface - Telnet for third part connectivity via TCP control such as touch panel interfaces
External IP control interface	- ASCII Command/configuration via IP interface - USB comms and RS232 comms interfaces
Upgradability	- Enablement code to upgrade from non CAM to CAM support (in situ, with no hardware change required)
Software	- Fully upgradable with ONLY protected Cabletime software from an HTTP server
SAP Announcements	- SAP (Session Announcement Protocol) notification of IP streams
Temperature Monitoring	- Unit operating temperature available remotely via web interface
Event Monitoring	- Key operating functions reported via SNMP or Syslog traps sent to third party SNMP manager (MIB available on request) - Automatic e-mail of Event log files via external SMTP server

Other Information

Power	- 7 W (from 770 rack, excluding external LNB load)
Weight	- 405 g
Dimensions	- 129 x 41 x 225 mm, occupies 1 (of 9) 770 rack slot
Environmental	- 0° - 40°C, 32 - 104 °F (770 rack ambient)
Approvals	- FCC, CE, CB, TUV Approved

Companion Models & Accessories

- 911-4153 IR Blaster assembly
- 780 Digital Media Decoder
- 761 Desktop Viewing Application
- 467 Evolution Media Manager Software
- 770 Powered Rack and Mounting Kit
- 783 DVB-T/T2 LAN-Caster Unit