> Data Sheet - 783 DVB-T/T2 LAN-Caster

The MediaStar Evolution range of DVB-T LAN-Casters are a powerful and ultra reliable, solid state "out of the box" solution for terrestrial TV reception and when used in conjunction with the Mediastar DVB-S satellite 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:

- 783 DVB-T Blade
- Quick Start Guide
- RJ45 Cat-5 patch cable
- RF loop-through cable – (230mm)

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Product Specification

System Input

RF input
- RF input of Digital terrestrial Television (DVB-T/T2) TV and radio channels via a 75ohm type F female connector

RF Frequency range
- 45 to 866 MHz

RF Input level
- -108 to -37 dBm (3 KHz RBW)

RF loop-through
- F type female connector (75 Ohms), 0dB gain
- Maximum RF input level -70dBm when using loop-through to connect up to 8 additional MediaStar DVB-T and T2 LAN-Caster units

Demodulation and stream protocols

DVB-T demodulation
- QPSK, 16QAM, 64QAM
- Carriers: 2K, 8K
- Coding Rate: 1/2, 2/3, 3/4, 5/6, 7/8
- Guard Interval: 1/4, 1/8, 1/16, 1/32
- FEC: Reed Solomon/Viterbi error correction

DVB-T2 demodulation
- QPSK, 16QAM, 64QAM, 256QAM
- Carriers: 1K, 2K, 4k, 8K, 16K, 32K
- Coding Rate: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
- Guard Interval: 1/128, 1/32, 1/16, 19/256, 1/8, 19/128, 1/4
- FEC: LDCP, BCH

Output streams
- Up to15 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

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 DVB-T to DVB-T+T2
- Enablement code to upgrade from non CAM to CAM support
- Upgrades 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)

Weight
- 375 g

Dimensions
- 129 x 41 x 225 mm, occupies 1 (of 9) 770 rack slot

Environmental
- 0º - 40ºC, 32 - 104 ºF (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
784 DVB-S/S2 LAN-Caster Unit