

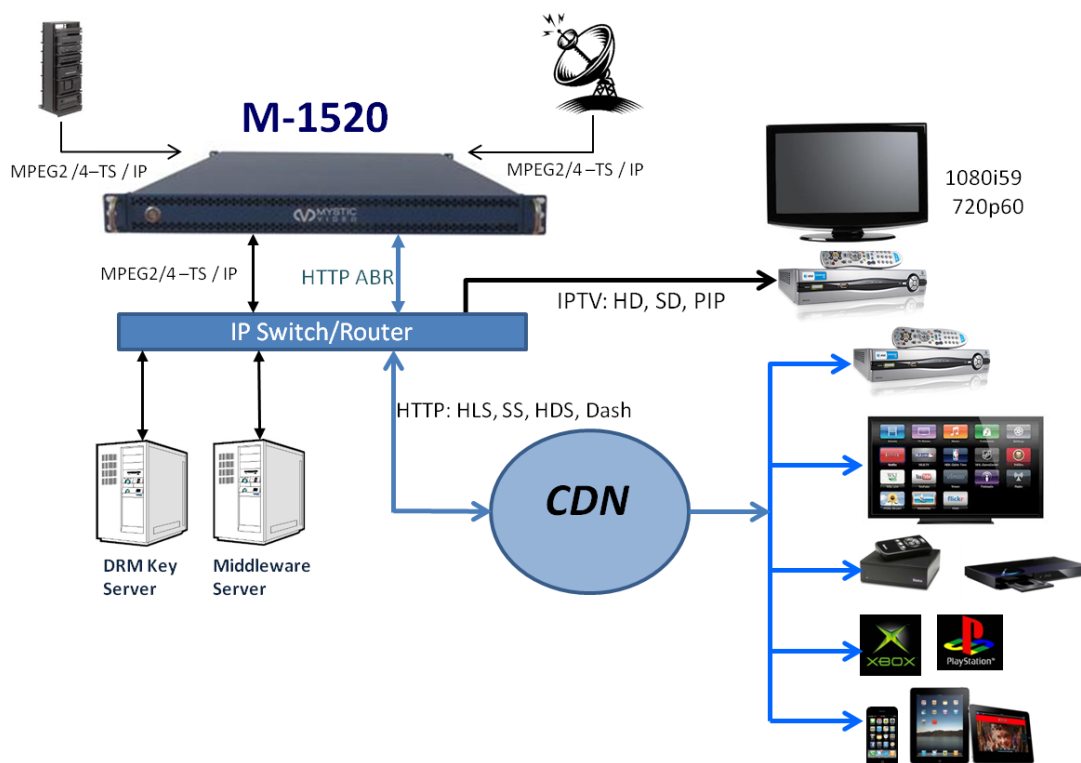


Mystic Video M-15x0 AVC H.264 Transcoder

Smart Transcoding for Growing and Evolving Video Applications

Mystic Video's Unified Video Services Platform solutions are transforming live video processing for MPVD's in IPTV, Cable and Streaming Video applications by providing the highest video quality compression available, transcoding, packaging, origin and streaming capabilities at market-leading prices enabling the fastest ROI on business cases.

Mystic's Unified Video Transcoder and Origin Server architecture provides MPVD's the asset protection they require with support for all current and future video processing needs in one single Unified Video Services Platform.



High Density IPTV & ABR Transcoding

The Mystic M-15x0 platform is capable of transcoding up to 40 HD or 80 SD or PIP channels for IPTV applications such as Mediaroom and up to 80 Adaptive Bit Rate (ABR) profiles for Mobile IP applications. Mystic's M-15x0 series flexible architecture offers MPEG-2 and H.264/AVC ASIC based transcoding of Any-to-Any or Any-to-Many real-time streams. Using state-of-the-art ASIC compression to achieve very low bit rates and exceptional picture quality, available in 1U rack mount, low power configurations, Mystic's M-15x0 series offers a dramatic reduction in cost when compared to competitor's Transcoders and Origin Server Packager/Encryption solutions.



Models Available:

M-1520 AC; M-1520 DC :

- MPEG4 output, 40 HD, or 80 SD or PIP Channels, or 80 ABR profiles
- MPEG2 output, 20 HD, or 40 SD

M-1510 AC; M-1510 DC :

- MPEG4 output, 20 HD, or 40 SD or PIP Channels, or 80 ABR profiles
- MPEG2 output, 10 HD, or 20 SD

M-Origin

- adds Adaptive Bit Rate and Origin Server inside M-1510 or M-1520 models

Transcode Capabilities

- Up to 40 HD Transcodes to MPEG4 H.264, or 20 HD MPEG2
- Up to 80 SD or PIP Transcodes to MPEG4 H.264, or 40 SD MPEG
- Up to 80 Single or MultiRes/ABR H.264/AVC profiles

Format Conversion

- MPEG2 ► Single or MultiRes/ABR H.264/AVC
- H.264/AVC ► Single or MultiRes/ABR H.264/AVC, MPEG2
- AAC, AC3, DD+ or MP1L2 ► LC-AAC, HE-AAC, DD, DD+ or pass-through audio
- Down scaling HD ► SD, PIP
- Bit rate: 40 Mbps ► 64 Kbps; CBR, VBR, Capped VBR
- Motion Adaptive HW Deinterlacing
- Audio Transcode capability
- DTA Router supports MPTS to SPTS

Input: IP Multicast MPEG2-TS

Output: MPEG-2 TS UDP unicast and multicast,
HTTP Streaming (HLS, SS, HDS, MPEG-DASH) (with M-Origin software option)



Mystic M-15x0 Series

Optional Software

M-15x0 Origin Server Software License: Optional

HTTP Packaging

- Smooth Streaming,
- HTTP Live Streaming (HLS),
- HTTP Dynamic Streaming (HDS),
- MPEG DASH
- Up to 320 packaged adaptive bit rate profiles

HTTP Encryption

Encryption: AES 128 internal, 3rd-party key exchange

- **HLS AES:** Verimatrix, Conax
- **HDS:** Adobe Access (FAXS)
- **MPEG DASH:** Marlin/Intertrust, Authentec DDA
- **Smooth Streaming:** PlayReady (Microsoft Keyserver, BuyDRM, EZDRM), Authentec DDA (PlayReady encrypted SmoothStreaming on iOS/Android)

About Mystic Video

The Mystic team is a group of veteran broadcast industry leaders whose previous products power many major Broadcast Operators' systems. Mystic's experience in digital video coding, transformation, and real-time system design produces equipment with the highest video quality, transcoding performance, and 24/7 operation. The new Mystic Smart Transcoder architecture surpasses old ASIC transcoders and future-proofs all IP delivery needs.



Mystic M-15x0 Series

Physical Specifications

Physical Requirements

Width 18.9"
Depth 25"
Height 1RU, 1.75"
Weight 20 lbs

Environment

Power 115-230V <220W
-48VDC
Fan front to back
Op Temp 5 to 40 C
Op Hum 0 to 85%

Dual Power: Option

Regulatory Compliance

FCC, CE, UL, RoHS and TUV

Warranty

One-year limited warranty

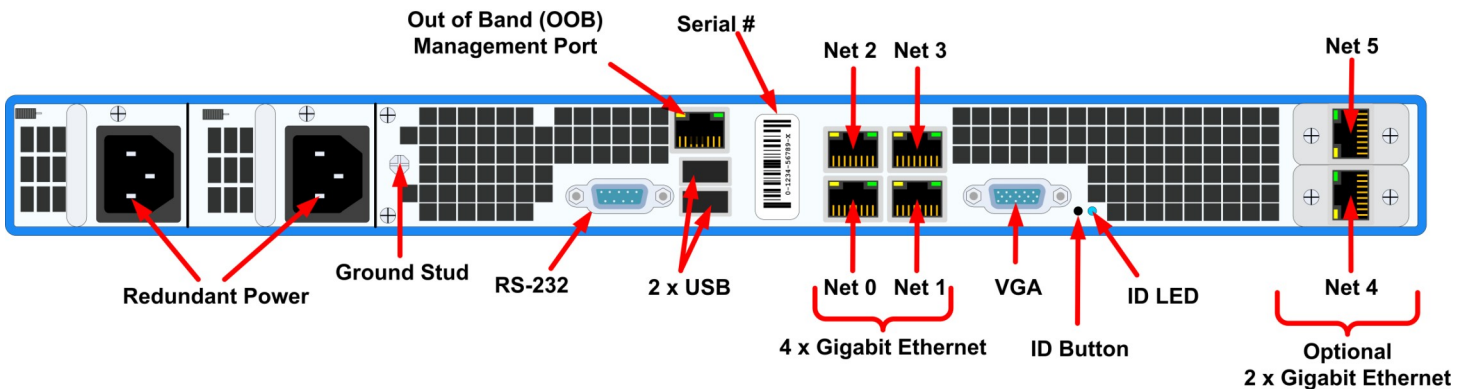
High Availability

M:N redundancy failover

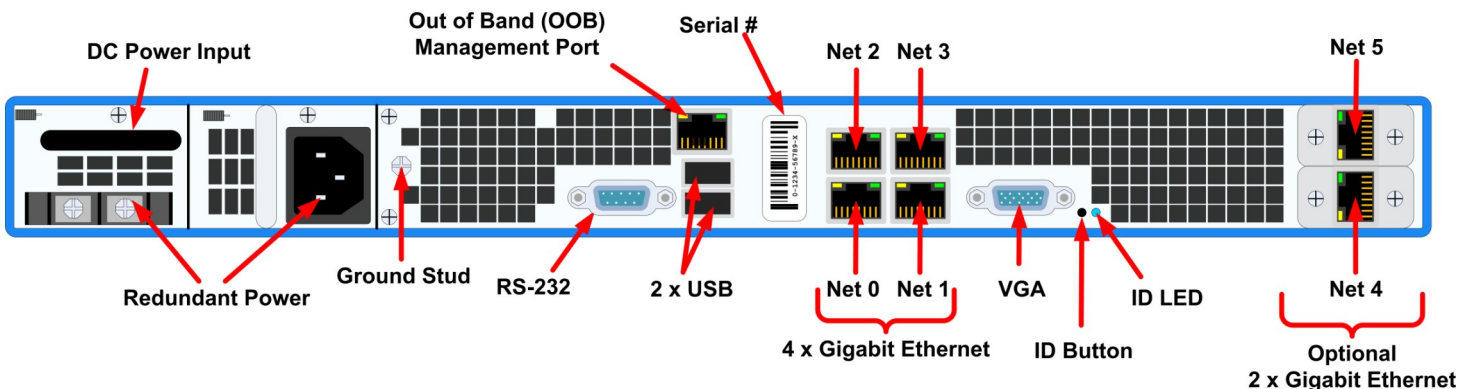
Management

SNMP traps

AC Power Chassis



DC Power Chassis



Connectivity: 4 gigabit Ethernet, additional 2 gigabit Ethernet port option