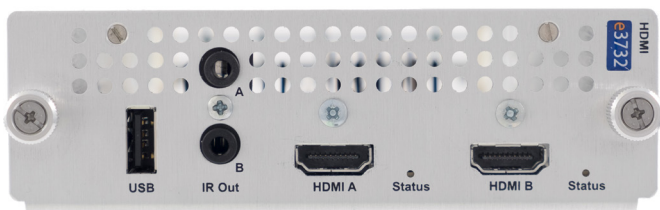


AvediaStream e3732 HDCP Professional Encoder

Dual HDMI encoder which delivers HDCP Professional protected premium or sensitive IP video streams to up to 1000 end points per channel. It encodes HD or SD H.264 streams from two HDMI video inputs over your existing network, including sources such as satellite set top boxes, digital cameras, digital signage systems, PCs and Blu-Ray/DVD Players.



Interfaces

- Video Input
 - Two HDMI interfaces with HDCP (see Content Protection below)
 - DVI signalling support
- Audio Input
 - HDMI (Embedded PCM)
- Two 802.3 10/100/1000BaseT Ethernet (RJ-45 chassis sockets, dual Ethernet features for redundancy purposes require c1210 chassis)
- Serial RS232 Port for local administration (RJ-45 chassis socket)
- Two IR Out (3.5mm jack sockets)

Streaming

- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
- UDP/RTP
- IP unicast
- IP multicast
- IGMP Join Group for enhanced switch compatibility
- Up to 400Mbps total stream output

Channel Management

- Channel announcement via SAP/SDP
- Up to 10 simultaneous stream destinations
- Multicast/unicast address selection (automatic/ manual)
- Configurable name, number and group membership

Management

- Fully integrated with all Exterity management tools:
 - Admin level management using AvediaServer Director and AvediaCare applications
 - HTTP/HTTPS device web interface; recommended browser: Chrome®
- SNMP
- UPnP device discovery
- RESTful API
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP

Content Protection

- HDCP Professional content protection (encryption to protect output stream, enforced on HDCP protected input, optional otherwise)
- Up to 1000 end points supported per channel
- HDCP-protected content playback not supported on AvediaPlayer r92xx Receivers

Content Protection Requirements

- Requires completed End Customer Agreement
- Installation location must be authorized by DCP and be present on www.digital-cp.com/HDCP_Pro_Authorized_Locations
- Cannot be installed in MDUs (Multiple Dwelling Units) such as college dormitories, duplexes, apartment blocks etc
- Requires regular Internet connection to authorize HDCP streaming
- Must have access to a NTP time server

Video Input

- Automatic detection of resolution and frame rate
- Resolutions supported:
 - 1080p
23.98Hz/24Hz/50Hz/59.94Hz/60Hz
 - 1080i 50Hz/59.94Hz/60Hz
 - 720p 50Hz/59.94Hz/60Hz
 - 480p/525p 59.94Hz & 576p/625p 50Hz
 - 480i/525i 59.94Hz & 576i/625i 50Hz
- HD 16:9 aspect ratio
- SD 16:9 aspect ratio

Video Encoding

- MPEG-4 part 10 H.264 (ISO/IEC 14496-10)
 - High Profile @ Level 4
- Video resolution: 525i, 525p, 625i, 625p, 720p, 1080i, 1080p
- Bit rate: 1Mbps – 20Mbps
- Frame rate: 23.98Hz/24Hz/50Hz/59.94Hz/60Hz
- Constant or variable bit rate

Audio Encoding

- MPEG-1 Layer II (ISO/IEC 11172-3)
- AAC
- Encoding bit rate 48kbps – 512kbps
- Audio sampling rate 48kHz

Enhanced Features

- Test pattern generation
- Automatic streaming of fixed color/test pattern on loss of video
- Watermarking (overlay customizable text or logo onto video)

Scaler

- Dedicated hardware scaler
 - User-configurable up/down scaling
 - User-configurable frame rate adjustment

Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- Two IEEE 802.3u 10/100/1000Mbps MDIX Ethernet interfaces

System

- CPU: Power Architecture e500 1Ghz
- RAM: 512 MB
- Flash: 528MB (for firmware & config)
- OS: Linux 3.12

Protocols

IP (RFC 791), UDP (RFC 768), TCP (RFC 793), ARP (RFC 826), DNS (RFC 1035), DHCP (RFC 2131), ICMP (RFC 792), IGMP (RFC 3376), TFTP (RFC 1350), HTTP (RFC 2616), Syslog (RFC 3164), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SNMP (v1, v2c -RFC 1901), IPv6 (RFC 8200), DHCPv6 (RFC 8415), SLAAC (RFC 4862), MLD (v2) (RFC 3810), NDP (RFC 4861)

Physical Format

- Modular hot swap blade for Exterity chassis
- AvediaStream c1101 (2 inputs)
- AvediaStream c1103 (up to 6 inputs)
- AvediaStream c1210 (up to 20 inputs)

Dimensions

- L: 275mm x W: 130mm x H: 40mm; weight 0.5kg

Regulatory

- **CE**
 - EN55032:2012 + corrigenda Aug 2012 & Dec 2012
 - EN55024:2010 + A1:2015
 - EN 61000-3-2:2014
 - EN 61000-3-3:2013
 - IEC 60950-1:2005 (Ed. 2.0) + Am 1:2009 +Am 2:2013
 - EN60950-1 2006 + A11:2009, A1:2010, A12:2011, A2:2013
- **UL**
 - UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. Oct 14, 2014
- **FCC**
 - 47CFR:2011 Part 15, Sub Part B
 - ANSI C63-4:2009
- **ACMA**
 - EN 55022:2010 +AC2011
 - AS/NZS 60950.1.2011 +A1

Environment

- Operating: 0 ...+40°C / +32 ... +104°F
- Storage: -20 ...+70°C / -4 ... +158°F
- Operating and storage Relative Humidity: 10-90% (non-condensing)

Power

- DC 24V: 19W typical, 28W maximum

MTBF

- Calculated to MIL-HDBK-217F, notice 2: 53637 hours (6.1 years)