

AvediaStream® Encoders

AvediaStream e3832 HDCP 32 | avstr-e3832-hdcp-32



Dual HDMI encoder which delivers HDCPv2.2 protected premium or sensitive IP video streams to up to 32 end points per stream. 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 section)
 - 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)

Streaming

- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
- UDP
- RTP
- SRT (licensable feature)
- IP unicast
- IP multicast
- IGMP Join Group for enhanced switch compatibility
- NewTek® NDI® (licensable feature)

Channel Management

- Channel announcement via SAP/SDP
- Multicast/unicast address selection (automatic/ manual)
- Configurable name, number and group membership

Content Protection

- HDCPv2.2
 - Encryption to protect output stream, enforced on HDCP protected input, optional otherwise
 - Up to 32 end points supported per stream
- SRT (Secure Reliable Transport)
 - Encryption to protect output stream over the internet from an in-the-clear HDMI source

Management

- Configurable using management tools:
 - Admin level management using AvediaServer Site Manager application
 - HTTPS device web interface; recommended browser: Chrome®
- SSDP & mDNS device discovery
- RESTful API
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)

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

- H.264
 - 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 - 30Mbps
 - Frame rate: 23.98Hz/24Hz/50Hz/59.94Hz/60Hz
 - Constant or variable bit rate
- NDI (Licence required)
 - Video resolution up to 1080p60
 - Bit rate up to 160Mbps
 - Frame rate: 23.98Hz/24Hz/50Hz/59.94Hz/60Hz
 - Variable bit rate

Latency

- H.264: sub 400mS
- NDI: sub 100mS

Audio Encoding

- AAC
- Encoding bit rate 48kbps – 512kbps
- Audio sampling rate 48kHz

Enhanced Features

- Test pattern generation
 - Automatic streaming of fixed colour/test pattern on loss of video
- Overlay generation
 - Place customisable text, image or clock on top of video or test pattern
- Video scaling
 - User-configurable up/down scaling
 - User-configurable frame rate adjustment

Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- 1000BASE-T, 100BASE-TX and 10BASE-T (802.3ab, 802.3u and 802.3 respectively)

Protocols

IP (RFC 791), UDP (RFC 768), TCP (RFC 793), ARP (RFC 826), DNS (RFC 1035), DHCP (RFC 2131), DNS-SD (RFC 6763), ICMP (RFC 792), IGMP (RFC 3376), mDNS (RFC 6762), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SSDP, SRT, Syslog (RFC 3164)

Dimensions

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

Physical Format

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

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: 15W typical, 30W maximum

Regulatory

- CE:
 - IEC 62368-1:2014
 - EN62368-1:2014 + A11:2017
 - EN55032:2012 + corrigenda Aug 2012 & Dec 2012
 - EN55024:2010 + A1:2015
 - EN 61000-3-2:2014
 - EN 61000-3-3:2013
- UL/CSA:
 - UL62368-1/CSA C22.2 No. 62368-1, Rev. February 17, 2012
- FCC:
 - 47CFR:2011 Part 15, Sub Part B
 - ANSI C63-4:2014
- ACMA:
 - AS/NZS 62368:2018
 - AS/NZS CISPR 32: 2015

MTBF

- Calculated to MIL-HDBK-217F, notice 2: 70994 hours (8.1 years)

In the Box

- AvediaStream e3832 HDCP 32 encoder blade, dual HD HDMI in, up to 1080p out, HDCPv2.2 out to 32 end points, enhanced features
- Product Safety Brochure (hard copy)