



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)

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 channel name and number

Management

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

Content Protection

- HDCPv2.2
 - Encryption to protect output stream, enforced on HDCP protected input, optional otherwise
 - Up to 1000 end points supported per channel
- SRT (Secure Reliable Transport)
 - Encryption to protect output stream over the internet from an in-the-clear HDMI source



Content Protection Requirements

- Requires completed End Customer Agreement
- Installation location must be authorised 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 authorise 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

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

- Video resolution up to 1080p60
- Bit rate up to 160Mbps
- Frame rate: 23.98Hz/24Hz/50Hz/59.94Hz/60Hz
- Variable bit rate

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
- 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)

Dimensions

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

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

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), Syslog (RFC 3164), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SSDP, SRT

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)

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

MTBF

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

In the Box

- AvediaStream e3832 HDCP Professional encoder blade, dual HD HDMI in, up to 1080p out, HDCP Professional out to 1000 end points, enhanced features
- Product Safety Brochure (hard copy)



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