

AvediaStream Encoders

avstr-e3730-std



AvediaStream e3730 Standard Encoder

Standard HDMI encoder which delivers HD or SD H.264 streams from an HDMI video input over your existing network, including sources such as digital cameras, digital signage systems and PCs.



Interfaces

- Video Input
 - HDMI interface
 - DVI signalling support
- Audio Input
 - HDMI (Embedded PCM)
- 802.3 10/100/1000BaseT Ethernet (RJ-45 chassis socket)
- Serial RS232 Port for local admin (RJ-45 chassis socket)
- IR Out (3.5mm jack socket)

Streaming

- Single program MPEG-2 transport stream (ISO/IEC 13818-1)
- UDP
- RTP
- IP unicast
- IP multicast
- IGMP Join Group for enhanced switch compatibility
- Up to 20Mbps total stream output

Channel Management

- Channel announcement via SAP/SDP
- 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
- SSDP device discovery
- RESTful API
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP

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

Scaler

- Dedicated hardware scaler
 - Automatic scaling to nearest supported resolution
 - Automatic frame rate adjustment

System

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

Network

- Linux dual IPv4/IPv6 stack
- DHCP/DHCPv6 or Static IP addressing
- IEEE 802.3u 10/100/1000Mbps MDIX Ethernet interface

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)

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, 2nd 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

Physical Format

- Modular hot swap blade for Exterity chassis
- AvediaStream c1101 providing 1 inputs
- AvediaStream c1103 providing up to 3 inputs
- AvediaStream c1210 providing up to 10 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)

Dimensions

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

Power

- DC 24V: 13W typical, 19W maximum

MTBF

- Calculated to MIL-HDBK-217F, notice 2: 68989 hours (7.9 years)