

AvediaStream® Encoders

AvediaStream e2320 | avstr-e2320



The AvediaStream e2320 encoder streams video channels over your existing network. It encodes and distributes content from a wide range of sources such as DVD Players, set-top boxes and digital cameras to an IP network. The e2320 is a dual encoder so can stream simultaneously from two independent video sources.

Interfaces

- Video Input:
 - Dual inputs providing Composite, Component, S-Video and RGBS
 - RCA 1V p-p 75Ω
- Audio Input:
 - Dual Unbalanced Line Level stereo (3.5mm jack socket)
 - 2V p-p 75Ω
- Dual IR out (3.5mm jack sockets)
- 802.3 10/100BaseT Ethernet (RJ45 chassis socket)
- Serial RS232 Port for local administration (RJ45 chassis socket)

Streaming

- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
- RTP
- UDP
- IP unicast
- IP multicast
- IGMP Join Group for enhanced switch compatibility
- Up to 80Mbps total stream output

Channel Management

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

Management

- Configurable using management tools
- Network administration via SSH, Telnet and SNMP
- Serial RS232 Admin Port
- Terminal Control Interface (TCI)
- HTTP web interface (supported browsers: Firefox, Internet Explorer and Chrome)
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP

Video Input

- PAL, SECAM, NTSC auto-switching
- Resolutions supported: 525i (480i) 59.94Hz & 625i (576i) 50Hz
- 4:3 / 16:9 aspect ratio
- Wide Screen signaling for automatic aspect ratio switching

Video Encoding

- MPEG-4 part 10 H.264 (ISO/IEC 14496-10)
- High Profile @ Level 3 (profile user configurable)
- Configurable GOP structure
- MPEG-2 (ISO/IEC 13818-2)
- Main Profile @ Main Level
- Configurable GOP structure
- Closed Captions
- Output Video Resolution:
 - 525i input: SQCIF (128x96p), QVGA (320x240p), SIF (352x240p), 525i (720x480i)
 - 625i input: SQCIF (128x96p), QVGA (320x240p), CIF/SIF (352x288p), 625i (720x576i)
- Bit rate: 128kbps – 15Mbps
- Frame rate: 25Hz – 60Hz
- Constant or variable bit rate

Audio Encoding

- MPEG-1 Layer II (ISO/IEC 11172-3)
- Stereo encoding bit rate 64kbps – 384kbps
- Mono encoding bit rate 48kbps
- Audio sampling rate 48kHz

System

- CPU: ARC 500MHz
- RAM: 256MB
- Flash: 128MB (for firmware and configuration)
- OS: Linux 2.6

Network

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

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), Telnet (RFC 318) Syslog (RFC 3164), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SNMP (v1, v2c -RFC 1901)

Regulatory

- CE:
 - EN55022:2010, EN55024:2010
 - EN61000-3-2: 2006 +A1: 2009 + A2: 2009
 - EN61000-3-3: 2008
 - IEC 60950-1:2005 (Second Edition) + Am 1: 2009 + Am 2:2013
 - EN 60950-1:2006 + A11:2009 +A1:2010 + A12:2011 + A2:2013
- FCC/UL/CSA:
 - 47CFR:2011 Part 15, Sub Part B
- ANSI C63-4:2003
 - UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. October 14, 2014

Physical Format

- Modular hot swap blade
- AvediaStream c1101 (1 input)
- AvediaStream c1103 (up to 3 inputs)
- AvediaStream c1210 (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: 10W Typical, 12W Maximum

MTBF

- Calculated to MIL-HDBK-217F, notice 2: 107677 hours (12.3 years)

In the Box

- AvediaStream e2320, dual channel SD MPEG-2/MPEG-4 H.264 encoder
- Product Safety Brochure (hard copy)