

AvediaStream e3522



The AvediaStream e3522 encoder streams pre-recorded and live TV and Radio (news, sports, entertainment, educational) HD and SD channels over your existing network. It encodes and distributes content from sources such as DVD Players, set top boxes and digital cameras to an IP network.

Additional benefits include:

- Easy Setup
- Hot swap module allows quick and non intrusive upgrade to existing installations
- 1080i, 720p, ED , SD or Sub SD Encoding and down-scaling
- Video input options: Composite or Component
- Audio Input Options: Unbalanced Stereo, Balanced Stereo or AES
- H.264 video encoding from devices such as DVD players, set-top boxes and digital cameras
- IR out for remote control of source device
- Embedded system for high reliability and low power consumption



e3522 Blade

		e2310	e2320	e3522	e2635	e3635	e3535	e2655	e3655	e3555
Encoding	HD 1080p						✓			✓
	HD 1080i			✓		✓	✓		✓	✓
	SD	✓	✓	✓	✓	✓	✓	✓	✓	✓
	H.264	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MPEG-2	✓	✓		✓	✓		✓	✓	
Video Inputs	Composite	✓	✓	✓						
	S-Video	✓	✓							
	SD Component	✓	✓	✓	✓	✓	✓			
	HD Component			✓	✓	✓	✓			
	RGBS		✓							
	RGBHV				✓	✓	✓			
	HD AV				✓	✓	✓			
	SD SDI							✓	✓	✓
	HD SDI							✓	✓	✓
	3G SDI							✓	✓	✓
Audio Inputs	Line Level Stereo Audio	✓	✓	✓	✓	✓	✓			
	Balanced Audio			✓						
	Embedded Audio				✓	✓	✓	✓	✓	✓
	PCM Digital Audio			✓	✓	✓	✓	✓	✓	✓
	IR Out			✓			✓			

Table 1. Encoder Comparison Table

Chassis

- C1
- C3
- C10

Resolution

- SD
- HD

Technical Specifications

Interfaces

Video Input:

Composite (BNC) or Component (BNC)

1V p-p 75Ω

Audio Input:

Unbalanced Line Level stereo (6.35mm Stereo Jack). 2V p-p 75Ω

Balanced Stereo Audio (6.35mm Stereo Jack). 5V p-p 560Ω.

AES3 Digital Audio (6.35mm Stereo Jack). 2.7V p-p 110Ω.

IR out (3.5mm jack socket)

802.3 10/100BaseT Ethernet (RJ-45 chassis socket)

Serial RS232 Port for local administration (RJ-45 chassis socket)

Streaming

Up to 80Mbps output per blade

Single program MPEG-2 transport streams (ISO/IEC 13818-1)

RTP

UDP

IP multicast

Multi IP unicast (up to 10 simultaneous locations)

IGMP

Channel announcement using SAP/SDP

Video or audio only options

Administration Interface

Configurable Video Input Selection

Configurable aspect ratio override

Multicast/unicast address selection (automatic or manual)

Configure name, number and group membership

Management

Fully integrated with all Exterity management tools

Network administration via HTTP web interface, SNMP & Telnet

Serial RS232 Admin Port

Telnet Control Interface (TCI)

Event logging via Syslog (RFC 3164) local and remote

Firmware upgrade via TFTP

Configuration backup/restore via TFTP

Video Input

HD, PAL, SECAM, NTSC auto-switching

Resolutions supported:

1080i 50Hz/59.94Hz/60Hz, 720p 50Hz/59.94Hz/60Hz,

525p 60Hz and 625p 50Hz, 525i 60Hz and 625i 50Hz

HD 16:9 aspect ratio

SD 4:3/16:9 aspect ratio

MPEG-4 Encoding

HD: H.264 High Profile Level 4.0

SD: H.264 Main Profile Level 3.0

Sub-SD 100kbps - 10Mbps

525i/625i 500kbps - 15Mbps

525p/625p 1Mbps - 15Mbps

720p 2Mbps - 20Mbps

1080i/1080p24 3Mbps - 24Mbps

Constant or variable bitrate

SQCIF, QCIF, CIF, DCIF, QVGA, HVGA, VGA, WVGA, FWVGA, D1, ED, 720p, 1080i video resolutions

Audio Encoding

Stereo:

MPEG-1, Layer 2

Encoding bit rate 48kbps - 384kbps

Audio sampling rate 32kHz, 44.1kHz or 48kHz

AC3 audio pass through from AES

IR Output

LIRC based control of AV source device

System

CPU: MIPS 4Kc 492MHz

RAM: 64MB

Flash: 16MB (for firmware and configuration)

OS: Linux 2.6

Network

Linux IPv4 stack

DHCP or Static IP addressing

IEEE 802.3u 10/100Mbps MDIX Ethernet

Protocol

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: 2006, EN61000: 2006, EN55024:2003

IEC 60950-1 1st Ed 2001, EN-60950-1: 2004

UL/CSA:

47CFR: 2008, ANSI C63-4: 2003

CSA 60950-1-03, 1st Ed. UL 60950-1, 1st Ed.

Power

DC 24V: 10W Typical, 12W Maximum

Physical Format

Modular hot swap blade for Exterity chassis

AvediaStream c1101 providing 1 input

AvediaStream c1103 providing up to 3 inputs

AvediaStream c1110 providing up to 10 inputs

Dimensions

L: 275mm x W: 130mm x H: 40mm

Weight

0.5kg

Environment

Operating: 0 ...+40°C / +32 ... +104°F

Storage: -20 ...+70°C / -4 ... +158°F

Operating and storage Relative Humidity: 10-90% (non-condensing)

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