

# AvediaStream e3532



The AvediaStream e3532 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 with an HDMI® output\* such as Blu-Ray/DVD Players, set top boxes, digital cameras, digital signage systems and PCs to an IP network.

Additional benefits include:

- Easy Setup
- Hot swap module allows quick and non intrusive upgrade to existing installations
- 1080p, 1080i, 720p, ED or SD Encoding
- Video input options: HD AV or RGBHV
- Audio Input Options: HD AV, Unbalanced Stereo or S/PDIF
- HD or SD H.264 video encoding from devices such as Blu-ray Disc players, digital signage systems and PCs
- IR out for remote control of source device
- Embedded system for high reliability and low power consumption



e3532  
Blade

## Technical Specifications

### Interfaces

Video Input: (Single Channel)

HD AV (HDMI style connector) or RGBHV (15-pin D-type).  
1080p 23.98Hz/24Hz/50Hz/59.94Hz/60Hz, 1080i  
50Hz/59.94Hz/60Hz, 720p 50Hz/59.94Hz/60Hz, 576i 50Hz,  
480i 60Hz auto-switching

Audio Input: (Stereo, AC3 pass through)

HD AV (Embedded)  
Unbalanced Line Level stereo (6.35mm Stereo Jack). 2V  
p-p 75Ω.  
S/PDIF Digital Audio (RCA). 0.5V p-p 75Ω.

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 v2  
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 or group membership  
Optional Stream on boot

### 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

\* HDCP encrypted content is not supported

Chassis

C1

C3

C10

Resolution

SD

HD

## Video Input

HD, PAL, SECAM, NTSC auto-switching  
Resolutions supported:  
1080p 23.98Hz/24Hz/50Hz/59.94Hz/60Hz,  
1080i 50Hz/59.94Hz/60Hz,  
720p 50Hz/59.94Hz/60Hz,  
576p 50Hz, 480p 60Hz  
525p 60Hz and 625p 50Hz,  
525i 60Hz and 625i 50Hz (HD AV only)  
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  
1080p50/60 4Mbps - 30Mbps  
Constant or variable bitrate  
SQCIF, QCIF, CIF, DCIF, QVGA, HVGA, VGA, WVGA,  
FWVGA, D1, ED, 720p, 1080i, 1080p video  
resolutions

## Audio Encoding

MPEG-1, Layer 2  
Encoding bit rate 48Kbps – 384Kbps  
Audio sampling rate 32KHz, 44.1KHz or 48KHz  
AC3 audio pass through from S/PDIF

## IR Output

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, UDP, TCP, ARP, DNS (RFC 1035), DHCP (RFC 2131),  
ICMP (RFC 0792), IGMP v3 (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), RTSP (RFC 2362), 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

## Temperature

Operating: 0 ...+40°C / +32 ... +122°F  
Storage: -20 ...+70°C / -4 ... +158°F

## More information on Encoders

	e2110	e2220	e2522	e3522	e2532	e3532	e2250	e2552	e3552	e3535	e3555
Encoding	Full HD**					✓			✓	✓	✓
	HD Ready*			✓		✓			✓	✓	✓
	SD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	H.264			✓	✓	✓		✓	✓	✓	✓
	MPEG 2	✓	✓					✓			
	MPEG 4		✓					✓			
	Down Scaler			✓	✓	✓	✓		✓	✓	✓
Up Scaler										✓	✓
Frame Rate Conversion										✓	✓
Video Inputs	Composite	✓	✓	✓	✓						
	S-Video	✓									
	SD Component		✓	✓	✓						
	HD Component			✓	✓						
	RGBS	✓									
	RGBHV					✓	✓				✓
	HD AV					✓	✓				✓
	SD SDI							✓	✓	✓	✓
HD SDI								✓	✓	✓	
3G SDI									✓	✓	
Audio Inputs	Unbalanced Stereo Audio	✓	✓	✓	✓	✓					✓
	Balanced Stereo Audio		✓	✓	✓						
	PCM Digital Audio		✓	✓	✓	✓	✓	✓	✓	✓	✓
	AC3 Pass Through			✓	✓	✓		✓	✓		
	IR Out	✓	✓	✓	✓	✓	✓				✓

\* Supports up to 1080i resolutions

\*\* Supports up to 1080p resolutions

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