

AvediaStream e2310



The AvediaStream e2310 encoder streams video (news, sports, entertainment, educational) 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.

Key features include:

- Outputs MPEG-2 Transport Stream over UDP or RTP as IP multicast or unicast stream
- MPEG-2 or H.264 video encoding
- SD or Sub-SD encoding
- MPEG-1 Layer II audio encoding
- Video inputs: Composite, SD Component, S-Video (adaptor required)
- Audio inputs: Unbalanced Stereo
- Hot swap blade allows quick and non-intrusive upgrade to existing installations using Exterity chassis options (c1101, c1103, c1110)
- Embedded system for high reliability and low power consumption



e2310 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				✓			✓		

Chassis

- C1
- C3
- C10

Resolution

- SD

Table 1. Encoder Comparison Table

Technical Specifications

Interfaces

Video Input:

Composite (RCA), Component (RCA), S-Video (RCA)
1V p-p 75Ω

Audio Input:

Unbalanced Line Level stereo (3.5mm jack socket)
2V p-p 75Ω

IR out (3.5mm jack socket- not enabled at this firmware release)

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 or manual)

Configurable name, number and group membership

Management

Fully integrated with Exterity management tools

Network administration via SSH, Telnet and SNMP

HTTP web interface (Supported browsers Firefox, Internet

Explorer (IE8 onwards) and Chrome)

Serial RS232 Admin Port

Telnet Control Interface (TCI)

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) 60Hz and 625i (576i) 50Hz

4:3 / 16:9 aspect ratio

Wide Screen Signalling for automatic aspect ratio switching

Video Encoding

MPEG-4 part 10 H.264 (ISO/IEC 14496-10)

High Profile @ Level 3 (profile user configurable)

MPEG-2 (ISO/IEC 13818-2)

Main Profile @ Main Level

Configurable GOP structure option with all encoding profiles

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: 12Hz – 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

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: 2010, EN61000-4-2: 1995 + A1 + A2, EN61000-4-3:

1996, EN61000-4-4: 1995, EN61000-4-6: 1996, EN55024:2003,

IEC 60950-1:2005 (Second Edition), Am 1: 2009

UL/CSA:

47CFR: 2008 Part 15, Sub Part B, ANSI C63-4: 2003

CAN/CSA C22.2 No. 0-M, CAN/CSA C22.2 No. 60950-1-07, UL

60950-1, 2nd Edition

Environment

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

Storage: -20 ... +70°C / -4 ... +158°F

Operating and storage Relative Humidity: 10-90%

(non-condensing)

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

Power

DC 24V: 7W Typical, 9W Maximum

Weight

0.5kg

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