

AvediaStream t3610

Delivering high quality TV and video to an unlimited number of users has never been easier! The AvediaStream Transcoder receives, processes and streams HD and SD content at various bit rates, codecs and resolutions to TVs, PCs, tablets and mobile phones, using your existing network.

Additional benefits include:

- Video transcoding from head-end devices on your IP network
- Transcode up to two streams simultaneously*
- Transcode and downscale streams to suitable formats for legacy SD decoders
- Transrate streams to remote destinations and wireless** devices from a single head-end capitalising on your existing IP network
- Transcast between unicast and multicast for site to site transmission
- Embedded system delivers high reliability and low power consumption
- Interoperates with a wide range of third-party applications and devices for digital signage and streaming media
- Hot swap module allows quick and non-disruptive upgrade to existing installations
- Fully integrated with all Exterity headend and client devices



t3610
Blade

Technical Specifications

Interfaces

802.3 10/100BaseT Ethernet (RJ-45 chassis socket)
Serial RS232 Port for local administration (RJ-45 chassis socket)

Inbound Streams

Single program MPEG-2 transport streams (ISO/IEC 13818-1)
RTP
UDP
IP unicast
IP multicast via IGMP

Outbound Streams

Single program MPEG-2 transport streams (ISO/IEC 13818-1)
RTP
UDP
IP unicast
IP multicast
IGMP Join Group for enhanced switch compatibility

Inbound Channel Management

Automatic channel discovery via SAP/SDP
XML channel list
User-specified channels

Outbound Channel Management

Channel announcement via SAP/SDP
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 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

Chassis

C1

C3

C10

Resolution

SD

HD

*Please contact Exterity for information on the supported transcodes

**Wireless network must be configured appropriately to support reliable distribution of high bandwidth video streams

Video Input Standards

MPEG-4 part 10 H.264 (ISO/IEC 14496-10)
MPEG-2 (ISO/IEC 13818-2)
Resolutions: up to 1080i @ 50Hz, 59.94Hz or 60Hz

Audio Input Standards

MPEG-1 Layer II (ISO/IEC 11172-3)
AC3/EAC3
AAC/HE-AAC***
Downmix multi channel audio to stereo

Video Output Standards

MPEG-4 part 10 H.264 (ISO/IEC 14496-10)
High Profile @ Level 4
MPEG-2 (ISO/IEC 13818-2)
Main Profile @ Main Level
Video resolution: 240p, 525i, 625i, 525p, 625p, 720p, 1080i
128kbps – 20Mbps
Frame rate: 12Hz-60Hz
Constant or variable bit rate

Audio Output Standards

MPEG-1 Layer II (ISO/IEC 11172-3)
AAC
Encoding bit rate 48kbps – 384kbps
Audio sampling rate 48kHz
Audio pass-through

System

CPU: ARC 500MHz
RAM: 512MB
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)

*** LATM encapsulation supported in a future firmware release

Regulatory

CE:
EN55022: 2006, EN55024: 1998 + A1: 2001, A2: 2003
EN61000-3-2: 2006, EN61000-3-3: 1995 + A1
IEC 60950-1: 2005 Second Edition

UL/CSA:

47CFR: 2008, ANSI C63-4: 2003
CSA 60950-1-03, 1st Ed. UL 60950-1, 1st Ed.

Power

DC 24V: 6W Typical, 9.5W Maximum

Physical Format

Modular hot swap blade for Exterity chassis
AvediaStream c1101 single blade per chassis
AvediaStream c1103 up to 3 blades per chassis
AvediaStream c1110 up to 10 blades per chassis

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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