

AvediaStream g4170

The AvediaStream g4170 gateway streams live TV and Radio (news, sports, entertainment, educational) channels over your existing network. It distributes free to air TV content from two ATSC terrestrial or Clear QAM cable sources to an IP network.

Additional benefits of this TVgateway include:

- Easy Setup
- Hot swap module allows quick and non intrusive upgrade to existing installations
- Streams both SD and HD Channels simultaneously
- Two ATSC/Clear QAM tuners per blade for twice the number of potential TV or radio channels compared to single tuner devices
- Each tuner independently supports either ATSC or Clear QAM
- Advanced PID filtering for fine-grained control over audio, subtitles and other channel metadata
- Embedded system for high reliability and low power consumption



g4170
Blade

Technical Specifications

Interfaces

Two ATSC/Clear QAM tuners (75 ohm F-type input connector)
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 or stream
Single/multiple program MPEG-2 transport streams (ISO/IEC 13818-1)
RTP
UDP
IP multicast
IP unicast
IGMP
Channel announcement using SAP/SDP

Administration Interface

Configurable DVB-C scanning
Stream specific channels from selected multiplex
Multicast/unicast address selection (automatic or manual)
Configure name, number or group membership per channel
Channel customisation using advanced filtering

- Create custom SPTS or MPTS streams containing elements from any channel on received multiplex
- Filters on PSI data, Program stream types, Audio Languages and PID number
- Unlimited number of PIDs filtered

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

Chassis

C1

C3

C10

Resolution

SD

HD

RF Input

Input Frequency Range: 57 to 887 MHz
 Input Sensitivity (8VSB): -80 dBm
 Maximum Input Level: 0 dBm
 Signal Modulation / Coding:

- Modulation: 8VSB, 64QAM, 256QAM
- Symbol rate: 10.762238 Msym/s (ATSC)
 5.056941 Msym/s (64-QAM)
 5.360537 Msym/s (256-QAM)

FEC: Reed Solomon & Viterbi
 Supported Standards: ATSC Terrestrial and Clear QAM Cable

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 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)

Power

DC 24V: 13W Typical, 16W Maximum

Physical Format

Modular hot swap blade for Exterity chassis
 AvediaStream c1101 providing 2 inputs
 AvediaStream c1103 providing up to 6 inputs
 AvediaStream c1110 providing up to 20 inputs

Dimensions

W: 130mm x L: 275mm 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)

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.

More Information on TVgateways

	g4130	g4150	g4155	g4170	g4190	g4210	g4215	g4230	g4235
DVB-C		✓	✓						
DVB-T	✓							✓	✓
DVB-T2								✓	✓
DVB-S						✓	✓		
DVB-S2						✓	✓		
ATSC/clear QAM				✓					
ASI					✓				
1 Tuner/CAM			✓				✓		✓
2 Tuners	✓	✓		✓		✓		✓	

United Kingdom Headquarters

t: +44 (0) 1383 828 250
 f: +44 (0) 1383 824 905

United Kingdom Sales

t: +44 (0) 1383 828 250
 f: +44 (0) 1383 824 905

North America Sales

t: +1 (404) 585 3520
 f: +1 (404) 585 3524

South Europe Sales

t: +33 (1) 58 04 26 75
 f: +33 (1) 58 04 23 00

Middle East Sales

t: +971 4 4204557
 f: +971 4 3638302

w: www.exterity.com
 e: info@exterity.com

