

AvediaStream TVgateway g4150



The AvediaStream g4150 gateway streams live TV and Radio (news, sports, entertainment, educational) channels over your existing network. It distributes free to air TV content from two DVB-C Cable TV sources to an IP network.



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

Technical Specifications

Interfaces

- Two DVB-C tuners (75 ohm IEC aerial input connector, 75 ohm IEC aerial output connector for pass-through)
- 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

RF Input

Input Frequency Range:	51 to 858 MHz
Minimum Input Level:	-66 dBm (64 QAM) -62 dBm (256 QAM)
Minimum Carrier to Noise Ratio:	26.5 dB (64 QAM) 32.5 dB (256 QAM)

Signal Modulation / Coding:

- Modulation: 4, 16, 32, 64, 128, 256 QAM
- Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
- FEC: Reed Solomon
- Channel Bandwidth: 8MHz
- Symbol Rates: 0.87 - 6.9Mbaud

Supported Standards: DVB-C

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

Protocols

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)

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.

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 2 input
- AvediaStream c1103 providing up to 6 inputs
- AvediaStream c1110 providing up to 20 inputs

Dimensions

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

Power

DC 24V: 13W Typical, 16W Maximum

Weight

0.5kg

AvediaStream TVgateways

	g4130	g4150	g4155	g4170	g4190	g4210	g4215	g4230	g4235	g4310	g4315
DVB-C		✓	✓								
DVB-T	✓							✓	✓		
DVB-T2								✓	✓		
DVB-S						✓	✓			✓	✓
DVB-S2						✓	✓			✓	✓
ATSC				✓							
Clear QAM				✓							
ASI					✓						
1 Input			✓		✓		✓		✓		
2 Inputs	✓	✓		✓		✓		✓		✓	✓
CAM			✓				✓		✓		✓

Table 1. TVgateways Comparison Table

To download the latest Technical Specifications for each of the AvediaStream TVgateway, please visit www.exterity.com.

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