



AvediaStream g4215

The AvediaStream g4215 gateway streams live TV and Radio (news, sports, entertainment, educational etc.) channels over your existing network. It descrambles and distributes encrypted and free to air TV content from DVB-S2 or DVB-S terrestrial 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
- One DVB-S2 tuner and one DVB-CI CAM slot per blade for scrambled and free to air TV or radio channels
- Uses professional 3rd party CAM for multiple channel decrypting
- Tuner supports either DVB-S2 or DVB-S
- Advanced PID filtering for fine-grained control over audio, subtitles and other channel metadata
- Embedded system for high reliability and low power consumption



g4215 Blade

Technical Specifications

Interfaces

One DVB-S2 tuner (75 ohm F-type input connector, 75 ohm F-type 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

CAM Modules

DVB-CI interface accepts commercial and professional 3rd party CAMs
 Supports descrambling of multiple channels
 Supports Mediaguard, Viaccess, Irdeto, Conax, Cryptoworks decrypting and more

Administration Interface

Configurable DVB-S2 & DVB-S 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: 950-2150 MHz
 Input Level: -69 to -25 dBm
 Maximum data rate of 66Mbps per transport stream
 Signal Modulation / Coding:

DVB-S

- Modulation: QPSK
- Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
- FEC: Reed Solomon & Viterbi

DVB-S2

- Modulation: QPSK, 8PSK
- Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8, 9/10
- FEC: LDPC & BCH

Supported Standards: DVB-S2 & DVB-S

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: 12W Typical, 15W Maximum (Not including LNB or CAM)

Physical Format

Modular hot swap blade for Exterity chassis
 AvediaStream c1101 providing 1 inputs
 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

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	✓	✓		✓		✓		✓	

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