



# AvediaStream g4210

The AvediaStream g4210 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-S2 or DVB-S satellite 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 DVB-S2 tuners per blade for twice the number of potential TV or radio channels compared to single tuner devices
- Each tuner independently 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



g4210 Blade

## Technical Specifications

### Interfaces

Two DVB-S2 tuners (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

### 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 50Mbps 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: 16W Typical, 19W Maximum (Not including LNB's)

**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**

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				✓					
ASI					✓				
1 Tuner			✓				✓		✓
2 Tuners	✓	✓		✓		✓		✓	
CAM			✓				✓		✓

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