



AvediaStream g4230

The AvediaStream g4230 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-T2 or DVB-T 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
- Two DVB-T2 tuners per blade for twice the number of potential TV or radio channels compared to single tuner devices
- Each tuner independently supports either DVB-T2 or DVB-T
- Advanced PID filtering for fine-grained control over audio, subtitles and other channel metadata
- Embedded system for high reliability and low power consumption



g4230 Blade

Technical Specifications

Interfaces

Two DVB-T2 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)
 Channel customisation using advanced filtering
 Unlimited number of PIDs filtered
 PMT and PAT regenerated to reflect filtered program contents
 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: 44 to 885 MHz
DVB-T
Input Sensitivity: -77dBm
Signal Modulation / Coding:

- FFT: 2K, 8K
- Modulation: QPSK, 16QAM, 64QAM
- Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
- Guard Interval: 1/4, 1/8, 1/16, 1/32
- FEC: Reed Solomon & Viterbi

DVB-T2

Input Sensitivity: -84dBm

Signal Modulation / Coding:

- FFT: 1K, 2K, 4K, 8K, 16K, 32K
- Modulation: QPSK, 16QAM, 64QAM, 256QAM
- Code Rate: 1/2, 2/3, 3/4, 3/5, 4/5, 5/6
- Guard Interval: 1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
- FEC: LDPC & BCH

Supported Standards: DVB-T2 & DVB-T

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

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 compliant

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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