

AvediaStream TVgateway

avstr-g4418



AvediaStream g4418 TVgateway

The AvediaStream g4418 TVgateway captures live TV and radio from satellite sources and streams them across an IP network. With eight inputs in a single blade, the g4418 combines low cost per channel with high reliability.



- High density product with eight x DVB-S/S2 RF tuners per blade for free-to-air TV or radio channels
- Streams both SD and HD channels simultaneously
- Advanced filtering to create duplicate channels (e.g. language specific), control bandwidth or provide data services such as EPG or MHEG data
- Single blade delivers maximum channel density for minimum rack space
- Exterity 4th generation TVgateway technology gives improved RF performance, improved DVB-S2 symbol rate performance, high reliability and low power consumption (around 300 mW per channel depending on multiplexes used)
- Future-proof IPTV technology with support for 4K/Ultra HD/ HEVC broadcast streams

Interfaces

- Eight DVB-S/S2 tuners (dual 75 ohm F-type input connectors)
- Two 802.3 10/100/1000BaseT Ethernet (RJ-45 chassis sockets, dual Ethernet features require the AvediaStream c1210 chassis)
- Serial RS232 port for local administration (RJ-45 chassis socket)

Streaming

- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
- RTP
- UDP
- IP multicast
- IP unicast
- IGMP Join Group for enhanced switch compatibility
- 500 Mbps total output streaming

Channel Management

- Channel announcement via SAP/SDP
- Interoperable with Samsung LYNK SINC servers
- Configurable DVB-S/S2 scanning (basic and advanced modes)
- Stream specific channels from selected multiplexes
- Multicast/unicast address selection (automatic or manual)
- Configure name, number and group membership per channel
- Fine-grained control over audio, subtitles and other channel metadata using advanced PID filtering:
 - Create custom SPTS streams containing elements from a channel
 - Filters on PSI data, table types and PID number
 - Unlimited number of PIDs filtered

Management

- Fully integrated with Exterity management tools
- Network administration via SSH and SNMP
- HTTP web interface (supported browsers: Firefox, Internet Explorer and Chrome, check with support@ext erityy.com for version information)
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP

RF Input

- Input connector: two 75 ohm F-type
- Tuning range: 950 to 2150 MHz
- Input level: -25 dBm to -65 dBm
- Maximum data rate: 72Mbps per transport stream
- LNB supply: 100mA per RF input with Short circuit protection
- LNB voltage: 13 or 18V

Signal Modulation / Coding:

- **DVB-S (ETSI EN 300 421 Broadcast services)**
 - Modulation: QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
 - Symbol rates: 1 to 45 MSymbols/s
 - FEC: Reed Solomon & Viterbi
 - Roll off: 0.35

- **DVB-S2 (ETSI EN 302 307 Broadcast services)**
 - Modulation: QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
 - 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
 - Symbol rates: 1 to 45 MSymbols/s
 - FEC: LDPC & BCH
 - Roll off: 0.2, 0.25, 0.35
 - Diseqc: 1.0, 1.1, 1.2
 - LNB supply: 100mA per RF input with Short circuit protection
 - LNB Voltage: 13 or 18v
- **DiSEqC: 1.0, 1.1, 1.2**

System

- Based on Linux 3.8

Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- Two IEEE 802.3u 10/100/1000Mbps MDIX Ethernet interfaces
- Ethernet redundancy - automatic switching to secondary Ethernet if network failure occurs (c1210 chassis required)

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), Syslog (RFC 3164), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SNMP (v1, v2c RFC 190101)

Regulatory

- CE:
 - EN55022:2010
 - EN55024:2010
 - EN61000-3-2: 2006 +A1: 2009 + A2: 2009
 - EN61000-3-3: 2008
 - IEC 60950-1:2005 (Second Edition) + Am 1: 2009 + Am 2:2013
 - EN 60950-1:2006 + A11:2009 +A1:2010 + A12:2011 + A2:2013
 - EN 303 372-2 V1.1.1
- UL/CSA/FCC:
 - 47CFR:2011 Part 15, Sub Part B
 - ANSI C63-4:2003
 - UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. October 14, 2014

Physical Format

- Modular hot-swap blade for Exterity chassis
 - AvediaStream c1101 providing 8 inputs
 - AvediaStream c1103 providing up to 24 inputs
 - AvediaStream c1210 providing up to 80 inputs

Dimensions

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

Weight

- 0.55kg

Power

- DC 24V: 22W Typical, 32W Maximum

Environment

- Operating: 0 ...+40°C / +32 ... +104°F
- Storage: -20 ...+70°C / -4 ... +158°F
- Operating and storage Relative Humidity: 10-90% (non-condensing)

MTBF

- Calculated to MIL-HDBK-217F, Notice 2: 35288 hours (4 years)
- A single g4418 is 2.5 times more reliable than the equivalent 3rd generation products (MTBF comparing 1 x g4418 versus 4 x g4310 in a c1210 chassis)