The AvediaStream g4448 TVgateway captures live TV and radio from terrestrial sources and streams them across an IP network. With eight inputs in a single blade, the g4448 combines low cost per channel with high reliability.

**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@exterity.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**
- Maximum data rate of 72Mbps per transport stream
- Input frequency range: 42-1002 MHz

**DVB-T (ETSI EN 300-744)**
- Input sensitivity:
  - -79.6dBm (8K, 64 QAM, Code Rate 2/3)
- Signal modulation / coding:
  - FFT 2K, 8K, 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
- Channel Bandwidth: 6 MHz, 7 MHz, 8 MHz

**DVB-T2 (ETSI EN 302-755)**
- Input sensitivity:
  - -78.1dBm (8K, 64 QAM, Code Rate 2/3, DTG 104)
  - -78.2dBm (32K, 256 QAM, Code Rate 3/5, DTG 106)
  - -76.3dBm (32K, 256 QAM, Code Rate 2/3, DTG 109)
- Signal modulation / coding:
  - FFT 1K, 2K, 4K, 8K, 16K, 32K
  - QPSK, 16QAM, 64QAM, 256 QAM
- Code rate 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
- Guard interval 1/4, 19/256, 1/8, 19/128, 1/16, 1/32, 1/128
- FEC: BCH & LDPC
- Channel Bandwidth: 1.712 MHz, 5 MHz, 6 MHz, 7 MHz, 8 MHz
AvediaStream g4448 TVgateway

Datasheet

**DVB-C (ETSI EN 300-429)**
- Input sensitivity:
  - -79.6dBm (64 QAM, Code Rate 2/3)
- Signal modulation / coding:
  - 16QAM, 32QAM, 64QAM, 128QAM, 256 QAM
- Channel Bandwidth: 8 MHz
- FEC: Reed Solomon & Viterbi
- Symbol Rates: 1.8 – 7.2 Msym/s
- Roll off: 0.15

**DVB-C2 (ETSI EN 302-769)**
- Input sensitivity:
  - -76.3dBm (1024 QAM, Code Rate 3/4)
- Signal modulation / coding:
  - 16QAM, 64QAM, 256 QAM, 1024QAM, 4096QAM
- Code rate 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
- Guard interval 1/64, 1/128
- Channel Bandwidth: 6MHz, 8 MHz
- FEC: BCH & LDPC
- Symbol Rates: 1.8 – 7.2 Msym/s
- Roll off: 0.15

**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), Telnet (RFC 318) Syslog (RFC 3164), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SNMP (v1, v2c RFC 1901)

**Regulatory**
- CE:
  - EN55022:2010
  - EN55024:2010
  - EN61000-3-3: 2008
- EN 303 340 V1.1.2
- UL/CSA/FCC:
  - ANSI C63-4:2003

**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: 21W Typical, 31W 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: 43540 hours (5 years). A single g4448 is 1.7 times more reliable than the equivalent 3rd generation products (MTBF comparing 1 x g4448 versus 4 x g4340 in a c1210 chassis)