

AvediaStream Gateways



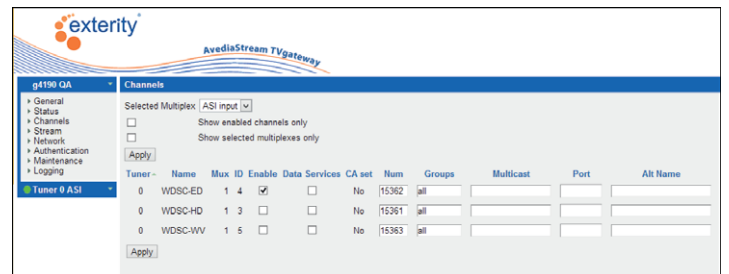
Datasheet (avstr-g4190)

AvediaStream g4190

Create

The AvediaStream g4190 Gateway streams live TV and radio (news, sports, entertainment, educational) channels over your existing network. It distributes free to air TV content from one ASI source to an IP network.

- Easy setup
- Hot swap module allows quick and non-intrusive upgrade to existing installations
- Streams both SD and HD Channels simultaneously
- One ASI input per blade for free to air TV or radio channels
- Embedded system for high reliability and low power consumption



Technical Specification

Interfaces

- One ASI input (75 ohm BNC input connector, 75 ohm BNC output connector for pass-through)
- One 802.3 10/100BaseT Ethernet (RJ-45 chassis socket)
- 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
- Up to 80Mbps total stream output

Channel Management

- Channel announcement via SAP/SDP
- Stream specific channels from selected multiplex
- Multicast/unicast address selection (automatic or manual)
- Configure name, number and group membership per channel

ASI Input

- Physical layer: ASI
- Supported standards: DVB-ASI, ATSC-ASI



Management

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

System

- CPU: MIPS 4Kc 492MHz
- RAM: 64MB
- Flash: 32MB (for firmware and configuration)
- OS: Linux 2.6

Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- IEEE 802.3u 10/100Mbps MDIX Ethernet

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:

- IEC 60950-1:2005 (Second Edition), Am 1: 2009
- EN55022:2010, EN55024:1998 + A1:2001, A2:2003,
- EN61000-4-2: 1995 + A1 + A2, EN61000-4-3: 1996 (tested i.a.w. EN6100-4-3: 2006 + A1 + A2), EN61000-4-4: 1995, (tested i.a.w. EN6100-4-4: 2004 + A1), EN61000-4-6: 1996 (tested i.a.w. EN6100-4-6: 2009)

UL/CSA:

- CAN/CSA C22.2 No. 0-M, CAN/CSA C22.2 No. 60950-1-07, UL 60950-1, 2nd Edition
- 47CFR: 2008 Part 15, Sub Part B, ANSI C63-4: 2003

Physical Format

Modular hot-swap blade for Exterity chassis

- AvediaStream c1101 providing 1 input
- AvediaStream c1103 providing up to 3 inputs
- AvediaStream c1110 providing up to 10 inputs
- AvediaStream c1210 not compatible with this Gateway

Dimensions

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

Weight

- 0.45kg

Power

- DC 24V: 12W Typical, 15W 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: 111049 hours (12.7 years)

Gateway Comparison

AvediaStream Gateways												
	g4190	g4310	g4330	g4340	g4370	g4410	g4412	g4415-SM	g4415-LK	g4418	g4442	g4448
DVB-C/C2				✓							✓	✓
DVB-C2											✓	✓
DVB-T			✓	✓							✓	✓
DVB-T2				✓							✓	✓
DVB-S		✓				✓	✓	✓	✓	✓		
DVB-S2		✓				✓	✓	✓	✓	✓		
ATSC					✓							
Clear QAM					✓							
ASI	✓											
Content Protection								Secure Media™	Samsung LYNK™			
Tuners	1	2	2	2	2	2	2	2	2	8	2	8
CA Slots							2	2	2		2	