

# AvediaStream Gateway

avstr-g4400



## AvediaStream g4400 Gateway

The AvediaStream g4400 Gateway supports the input of Transport Streams delivered by IPTV providers, enabling the selection of required channels for re-distribution over the LAN. Additionally two paired g4400s can send and receive SRT streams between remote sites, providing a secure and reliable path for video transmission over the internet/WAN.



### Interfaces

- Two 802.3 10/100/1000BaseT Ethernet (RJ-45 chassis sockets, dual Ethernet features require AvediaStream c1210 Chassis)
- Serial RS232 port for local administration (RJ-45 chassis socket)

### IP Input

- Input connector: two RJ-45 sockets (bonded interface)
- Single or Multi Program Transport Stream inputs (SPTS or MPTS)
- Maximum combined input and output of 500Mb/s

### Streaming

- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
- RTP
- UDP
- IP multicast
- IP unicast
- SRT (AES-128 encryption, 80Mb/s maximum streaming, configurable error recovery)
- IGMP Join Group for enhanced switch compatibility
- Maximum combined input and output of 500Mb/s

### Channel Management

- Channel announcement via SAP/SDP
- Interoperable with Samsung LYNK SINC servers
- Configurable multicast scanning
- Stream specific channels from selected MPTS
- 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 all Exterity management tools:
  - Admin level management using AvediaServer Director and AvediaCare applications
  - HTTP/HTTPS device web interface; recommended browser: Chrome®
- SNMP
- SSDP device discovery
- RESTful API
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP

### System

- Linux based

### Network

- Linux dual IPv4/IPv6 stack
- DHCP/DHCPv6 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), SRT, 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), HTTPS (RFC 2818), Syslog (RFC 3164), NTP (RFC 1305), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SNMP (v1, v2c RFC 1901), IPv6 (RFC 8200), DHCPv6 (RFC 8415), SLAAC (RFC 4862), MLD (v2) (RFC 3810), NDP (RFC 4861)

### Regulatory

- CE:
  - EN55032:2012
  - EN55024:2010
  - EN 61000-3-2:2014
  - EN 61000-3-3:2013
  - IEC 60950-1:2005 (Second Edition) + Am 1: 2009 + Am 2:2013
  - EN 60950-1:2006 + A11:2009 +A1:2010 + A12:2011 + A2:2013
- ACMA
  - EN 55022:2006 +A1:2007, EN 55032:2012, AS/NZS 60950.1.2011

## Physical Format

- Modular hot-swap blade for Exterity chassis
- AvediaStream c1101 providing up to 500Mbps throughput on one RJ-45 socket
- AvediaStream c1103 providing up to 500Mbps throughput on one RJ-45 socket
- AvediaStream c1210 providing up to 500Mbps throughput on two RJ-45 sockets

## Dimensions

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

## Weight

- 0.5kg

## Power

- DC 24V: 11W Typical, 17W 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: 94718 hours (10.8 years)