

AvediaStream® Gateway

AvediaStream g4401 Gateway | avstr-g4401



The AvediaStream g4401 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 g4401 Gateways can send and receive SRT streams between remote sites, providing a secure and reliable path for video transmission over the internet/WAN.

Interfaces

- One 802.3 10/100/1000BaseT Ethernet RJ-45 socket
- 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: three RJ-45 sockets (bonded interface)
- Single or Multi Program Transport Stream inputs (SPTS or MPTS)
- For maximum combined input and output, see table below

Streaming

- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
- RTP
- UDP
- IP multicast
- IP unicast
- SRT (AES-128 encryption, configurable error recovery)
- IGMP Join Group for enhanced switch compatibility

Scenario*	Input (max Mb/s)	Output (max Mb/s)
Unencrypted in and out	200 (UDP)	200 (UDP)
Encrypted in	60 (SRT)	60 (UDP)
Encrypted out	70 (UDP)	70 (SRT)
Encrypted in and out	45 (SRT)	45 (SRT)

* Values shown indicate best-case scenario

Channel Management

- Channel announcement via SAP/SDP
- Interoperable with Samsung LYNK REACH 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

- Configurable using management tools:
 - Admin level management using AvediaServer Site Manager application
 - HTTP/HTTPS device web interface; recommended browser: Chrome®
- SNMP
- 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
- Three IEEE 802.3u 10/100/1000Mbps MDIX Ethernet interfaces
- Ethernet redundancy - automatic switching to secondary chassis 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), SSDP

Regulatory

- CE:
 - IEC 62368-1:2014
 - EN62368-1:2014 + A11:2017
 - EN55032:2015
 - EN55024:2010 + A1:2015
 - EN 55016-2-1:2009 + A1:2011 + A2:2013
 - EN 55016-2-3:2010 + A1:2010 + A2:2014
 - EN 61000-3-2:2014
 - EN 61000-3-3:2013
- UL/CSA:
 - UL62368-1:2014
 - CSA C22.2 No. 62368-1, Rev. February 17, 2012
- FCC:
 - 47CFR:2011 Part 15, Sub Part B
 - ANSI C63-4:2014
- ACMA:
 - AS/NZS 62368.1:2018
 - AS/NZS CISPR 32:2015

Physical Format

- Modular hot-swap blade
- AvediaStream c1101 (up to 200Mb/s throughput)
- AvediaStream c1103 (up to 600Mb/s throughput)
- AvediaStream c1210 (up to 2000Mb/s throughput)

Environment

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

Dimensions

L: 275mm x W: 130mm x H: 40mm; weight 0.5kg

Power

DC 24V: 11W Typical, 17W Maximum

MTBF

Calculated to MIL-HDBK-217F, Notice 2: 96523 hours (or 11 years)

In the Box

- AvediaStream g4401-hw Gateway blade, IP input hardware platform
- Product Safety Brochure (hard copy)