

AvediaStream Receivers



Datasheet (avstr-r9350)

AvediaStream r9350 SDI Receiver

Create

Provides a bridge between IPTV and SDI environments allowing users to leverage the flexibility of IPTV systems and deliver video into high quality studio and broadcast environments.

- Pick up live IPTV streams or VoD content from the network and output as SDI for integration into broadcast/studio environments and monitors
- 3G SDI video output with variable output resolutions (SDI, HD-SDI or 3G-SDI)
- Exterity Blade format embedded system offering low power consumption and hot swap capability
- Compatible with the AvediaStream Chassis for seamless integration into IPTV systems



Technical Specification

Video Output

BNC 1.75V p-p 75Ω

- 3G SDI - SMPTE 424M - Level A only
- HD SDI - SMPTE 292M
- SDI - SMPTE 259M

RCA 1V p-p 75Ω

- Composite

Audio Output

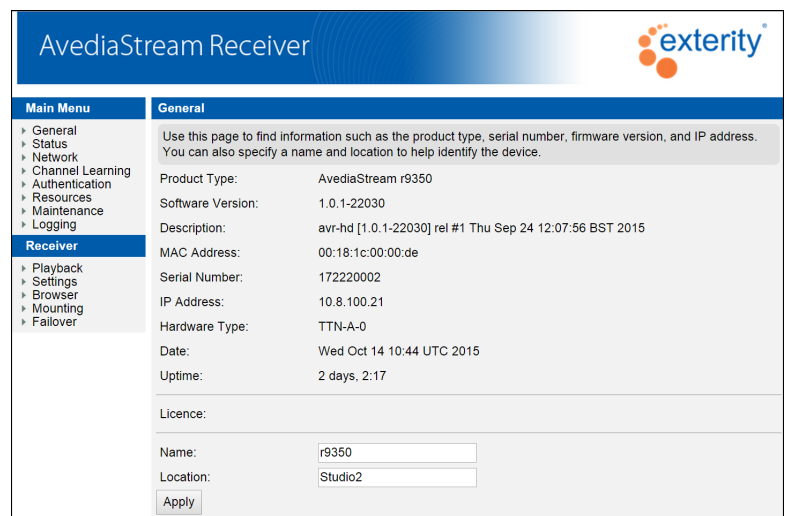
BNC 1.75V p-p 75Ω

- 3G SDI, HD SDI or SDI (Embedded, 2-6 channel PCM audio)
- 3.5mm jack socket
- Unbalanced Line Level stereo (1V p-p 75Ω)

IPTV Stream Decoding

Single program MPEG-2 transport streams (ISO/IEC 13818-1)

- UDP, RTP
- IP unicast,
- IP multicast
- Video On-Demand: RTSP, HTTP



Channel Management

- Automatic channel discovery from all Exterity head end equipment
- SAP/SDP announcements
- Channel access control
- XML channel lists
- Static channels
- Channel redundancy
- Channel failover to channel or web page

Management

- Fully integrated with all Exterity management tools
- Network administration via HTTP web interface/ SNMP/Telnet/SSH
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP

Additional Features

- **Video wall** - fine control of display to allow the creation of video walls using receivers, includes wall position control and TV bezel compensation.
- **Unit-to-unit sync** - Multiple receivers showing the same TV channel automatically synchronize video and audio to one video frame.
- **Low Latency** – Sub 400ms system latency between Exterity Encoders and Receivers in full multicast IPTV environments.

System

- CPU: ST40-300 650MHz
- RAM: 512MB
- Flash: 128MB (for firmware and configuration)
- OS: Linux 3.4.xx

Network

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

Protocols

IP (RFC791), UDP (RFC768), TCP (RFC793), ARP (RFC826), DNS (RFC1035), DHCP (RFC2131), ICMP (RFC792), IGMP v3 (RFC 3376), TFTP (RFC1350), HTTP (RFC2616), Telnet (RFC854), Syslog (RFC3164), NTP (RFC1305), SAP (RFC2974), SDP (RFC4566), RTP (RFC3550), RTSP (RFC2362), SNMPv1/v2c (RFC1157/ RFC1901)

Regulatory

CE, FCC, UL, CSA, ACMA compliant

CE

- EN55022:2010
- EN55024:2010
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- IEC 60950-1:2005 (Ed. 2.0) + Am 1:2009 +Am 2:2013
- EN60950-1 2006 + A11:2009, A1:2010, A12:2011, A2:2013

FCC/UL/CSA

- 47CFR:2011 Part 15, Sub Part B
- ANSI C63-4:2009
- UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. October 14, 2014

ACMA

- EN 55022:2010 +AC2011
- AS/NZS 60335.1.2011 +A

Physical Format

Modular hot swap blade for Exterity chassis

- AvediaStream c1101 providing 1 output
- AvediaStream c1103 providing up to 3 outputs
- AvediaStream c1210 providing up to 10 outputs

Weight

- 0.5 kg

Environment

- Operating temperature: 0 ...+40°C / +32 ... +122°F
- Storage temperature: -20 ...+70°C / -4 ... +158°F
- Operating Relative Humidity: 5 – 95% (non-condensing)

Power

- DC 24V: 9W Typical, 14W Maximum

MTBF

Calculated to MIL-HDBK-217F, notice 2: 99522 hours (11.4 years)