

AvediaPlayer r9210



The AvediaPlayer r9210 is a versatile stand-alone receiver for connecting any TV or AV display device to your IP Network. In addition to the standard HDMI® output it offers Component, SD Composite, SD S-Video and analogue stereo audio outputs.

- Receives and decodes IPTV streams
- Analogue Video and Audio Outputs
- Accepts and distributes 1080p resolution for excellent image quality
- FTP Server allows media provider to upload files to the device
- Steel enclosure makes this receiver solid and robust
- Built-in user interface or third party middleware
- Power over Ethernet (PoE) simplifies installation and saves on the cost of cabling and power points
- Receiver Development Kit (RDK) is available for customisations and tailored applications



Technical Specifications

Video Output

- HDMI (with HDCP): 1080p, 1080i, 720p (all at 50Hz or 60Hz), 576p (50Hz), 480p (60Hz)
- Component (YPbPr, 3 x RCA): 1080i, 720p (50Hz/60Hz), 576p, 576i (50Hz), 480p, 480i (60Hz)
- S-Video (Y/C, mini-DIN): PAL 576i (50Hz)
- Composite (CVBS, RCA): PAL 576i (50Hz)

Audio Output

- HDMI: 2 Channel PCM or Bitstream
- Analogue (2 x RCA): Unbalanced stereo (line level 1V pk-pk)
- TOS: 2 Channel PCM or Bitstream

Video Decoding

- MPEG-4 part 10 H.264 (ISO/IEC 14496/10)
- MPEG-2 (ISO/IEC 13818-2)
- Resolutions: up to SD, 720p & 1080i @ 50Hz, 59.94Hz or 60Hz 1080p @ 24Hz

Audio Decoding

- MPEG 1 Layer II (ISO/IEC 11172-3)
- AC3/EAC3
- AAC/HE-AAC
- Downmixes multi channel audio to stereo

Streaming

- MPEG 2 Transport Stream (ISO/IEC 13818-1)
- RTP
- UDP
- IP multicast
- IP unicast
- IGMPv2/v3
- 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
- Hidden channels
- Playlists
- Channel redundancy
- Channel failover to playlist, channel or web page

USB Port

- Can be used for third party applications, external storage, keyboard, mouse or touch screen
- USB Hotplug enables USB devices to be auto mounted

Infra-red/Control Options

- Built in IR receiver
- 3.5mm jack for IR extender or tethered remote control
- IR Keyboard and third party remote controls supported
- TV control via Serial RS232 or HDMI CEC

Built-in user interface

- Channel selection menu
- Volume control
- Audio Language control
- DVB Subtitles (ETSI EN 300 743)
- Closed Captions (CEA-608 captions embedded in CEA-708 data)
- Teletext
- Internationalisation support

Integrated Web Browser

- ANT® Galio for integration with Exterity and third party middleware
- HTML 4.01, XHTML 1.0, HTTP 1.1, CSS 2.1, CSS 3 partial support
- Remote Event Support (HTML 5), JavaScript 1.5, DOM Level 2, XML, AJAX
- Unicode and international language (Western, Greek, Russian and Arabic)
- JavaScript API for control of device configuration and media playback
- Image formats: png, jpeg, gif and bmp

Management

- Fully integrated with all Exterity management tools
- Network administration via HTTP web interface, SNMP, Telnet or SSH
- Serial RS232 Admin Port
- Terminal Control Interface (TCI)
- Event logging via Syslog local and remote
- Firmware upgrade via TFTP & Multicast TFTP
- Configuration backup/restore via TFTP
- Secure Mode option to lock down Receiver access if required

System

- CPU: ST40-300 450MHz
- RAM: 256MB
- Flash: 32MB (for firmware and configuration)
- OS: Linux 2.6.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 (RFC0792), IGMP v3 (RFC 3376), TFTP (RFC1350), Multicast TFTP (RFC2090), HTTP (RFC2616), Telnet (RFC854), Syslog (RFC3164), NTP (RFC1305), SAP (RFC2974), SDP (RFC4566), RTP (RFC3550), RTSP (RFC2362), SNMPv1/v2c (RFC1157/ RFC1901)

Power

- DC Jack (24V): 7W typical, 11W maximum
- POE IEEE 802.3af PD (48V): 7W typical, 11W maximum

Physical Dimensions

- W: 222mm x D: 95mm x H: 43mm
- Weight: 0.6 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)

Regulatory

- CE, UL, CSA, FCC, C-Tick compliant

EMC:

- EN55022: 2006, 47CFR: 2008 Part 15, Sub Part B (FCC)
- EN55024: 1998 +A1:2001, A2:2003
- EN55013: 2001 + A1,A2

Safety:

- IEC 60950-1:2005 (Ed 2.0)
- EN 60950-1:2006
- CAN/CSA C22.2 No. 60950-1-07
- UL 60950-1, 2nd Edition

Options

A wide range of optional accessories are available (see Exterity website for details):

- TV, desk and secure mounting brackets
- IR and wired remote controls and extenders
- Power supplies for non-POE environments

Receiver Development Kit (RDK)

The Receiver Development Kit (RDK) enables Exterity partners to integrate their own solutions with third party applications and back end components, such as middleware.

Third party applications can control the Exterity receiver using any or a combination of the following:

- Terminal Control Interface (TCI)
- Simple Network Management Protocol (SNMP) interface
- JavaScript API
- Native application support (DirectFB based development environment)

AvediaPlayer Receiver variants

r9200 - HDMI Only

r9210 - HDMI and analogue AV

r9220 - HDMI and 4-Port Switch

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