

# 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



AvediaPlayer  
r9210  
Receiver

## Technical Specifications

### Video Output

HDMI\* (with HDCP): 1080p,1080i,720p (50Hz/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

H.264 (MPEG 4 part 10-ISO/IEC 14496-2)

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

Downmix 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 announcement

Channel access control e.g. Parental 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 3rd 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, Closed Captions

Teletext

Internationalisation support



\*Please contact Exterity for information on features supported



## 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  
Serial RS232 Admin Port  
Telnet Control Interface (TCI)  
Event logging via Syslog (RFC 3164) local and remote  
Firmware upgrade via TFTP & Multicast TFTP  
Configuration backup/restore via TFTP

## System

CPU: ST40-300 450MHz  
RAM: 256MB  
Flash: 32MB (for firmware and configuration)  
OS: Linux 2.6.xx  
Optional internal storage up to 64GB

## 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 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

Wall or under desk mount bracket  
VESA mount bracket  
Tethered remote control  
Infrared remote control  
Infrared receiver extender  
Power Supply: UK, EU, USA, AUS, SA (Other countries available)

### AvediaPlayer Variants

r9200 - HDMI Only  
r9210 - HDMI and analogue AV  
r9220 - HDMI and 4-Port Switch

# 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:

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

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