

# AvediaPlayer r9200



The AvediaPlayer r9200 connects an HD TV to your existing IP network to receive digital TV channels and other video sources. It features a single Ethernet port and an HDMI® output in a compact form factor with the lowest power consumption of all Exterity AvediaPlayer Receivers.

- Receives and decodes IPTV streams
- Built-in user interface or third party middleware
- Displays up to 1080p resolution for excellent image quality
- FTP Server allows media provider to upload files to the device
- Power over Ethernet (PoE) simplifies installation and saves on the cost of cabling and power points
- Steel enclosure makes this receiver solid and robust
- 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)

### Audio Output

- HDMI: 2 Channel PCM or Bitstream
- 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

### 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

### 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

### 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

## Power

- DC Jack (24V): 6W typical, 9W maximum
- POE IEEE 802.3af PD (48V): 6W typical, 9W maximum

## 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)

## Physical Dimensions

- W:140mm x D:95mm x H:35mm
- Weight: 0.4 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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### Leading IPTV Delivery



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Version

3.2

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