

AvediaPlayer r9220

The AvediaPlayer r9220 combines the delivery of HD video with three additional Ethernet ports that enable organisations to provide additional services, such as voice and data via one device for lower capital and operating costs.

- Receives and decodes IPTV streams
- Easy setup
- Four port Ethernet Switch for TriplePlay requirements
- Supports various video resolution formats
- Steel enclosure makes this receiver solid and robust
- Built-in user interface or 3rd 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
r9220
Receiver

Technical Specifications

AV Output*

Video: HDMI 720p, 1080i & 1080p @ 50Hz, 59.94Hz or 60Hz
Audio: HDMI (8 channel PCM or Bitstream), TOS (2 channel PCM or Bitstream)
HDCP Support

Video Decoding

H.264 (MPEG-4 part 10-ISO/IEC 14496-2)
MPEG 4 part 2 (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
Playlists
Automatic redundant channel failover

USB Port

Can be used for keyboard, mouse, touch screen or external storage

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 Port

Built in user interface

Channel selection menu
Volume control
Audio Language control
DVB Subtitles
Engineering menu
Configurable button action

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

Resolution

SD

HD

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
Configuration backup/restore via TFTP

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
Integrated Ethernet switch with IEEE 802.1q VLAN support
Four 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), HTTP (RFC2616), Telnet (RFC854),
Syslog (RFC3164), NTP (RFC1305), SAP (RFC2974), SDP (RFC4566),
RTP (RFC3550), RTSP (RFC2326), SNMPv1/v2c (RFC1157/RFC1901)

Power

DC Jack (24V): 7W Typical, 9W Maximum
POE IEEE 802.3af PD (48V): 7W Typical, 9W Maximum

Physical Dimensions

W: 185mm x D: 95mm x H: 37mm
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)

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) is a platform that allows Exterity partners the ability 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

Below are some examples of how the RDK can be used in different settings:



Video On-Demand (VoD)

A customised VoD interface that integrates with a payment system.



Customisable User Interface

Customise the TV user interface and tailor your solution to various groups at scheduled times to different places.

