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
- Four port Ethernet Switch for TriplePlay requirements
- 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 r9220 Receiver

Resolution

SD

HD

Technical Specifications

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

AIRWAVE

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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

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), 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, 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) 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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