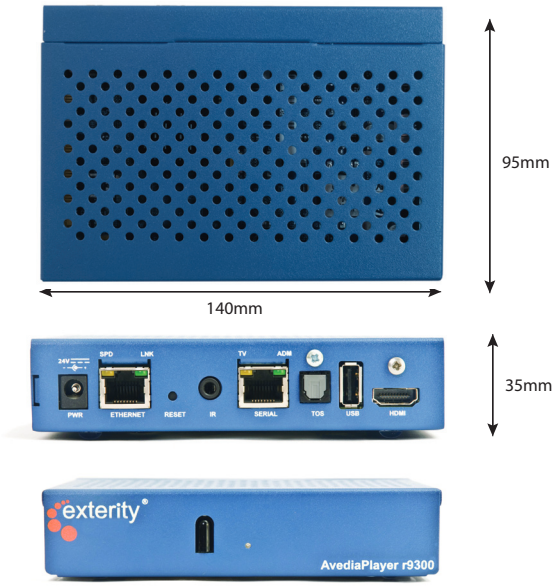
AvediaPlayer Receiver r9300

Datasheet

Delivers advanced network video decoding capabilities across a wide range of resolutions up to 1080p60 for superb image quality. Compared to previous models, it typically delivers a 20% reduction in power consumption, making it an economical choice for enterprise video display systems.

Highlights

- Simply plug and play with Power over Ethernet (PoE), built in firmware, and automatic channel discovery.
- Full support for IPTV streams up to 1080p60, outperforming standard set-top boxes, to deliver very high quality playback for demanding video environments.
- 20% reduction in power consumption over previous versions, meaning more efficient and reduced total lifetime cost of ownership.
- PoE simplifies installation and saves on the cost of cabling and power points.
- User options include a built-in user interface, access to fully customizable Artio or third party middleware.
- Enhanced setup of receiver end user language and font customization. Receiver TV user interface language and font options can be centrally set up by the administrator to precisely match the end user's language.
- Playback of content protected by HDCPv2.2 or SecureMedia.



Technical Specifications

Video Output

- HDMI v1.4b (with HDCP): 1080p,1080i, 720p (50Hz/59.94Hz/60Hz), 576p, 576i (50Hz), 480p, 480i (59.94Hz/60Hz)

Audio Output

- HDMI: 2 or 6 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:
  - 240p, 360p, 480i, 480p 576i, 576p, 720p, 1080i and 1080p @ 50Hz, 59.94Hz or 60Hz

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 2.0 Port

- Can be used for external storage, keyboard or mouse
- USB hot plug enables auto-mounting of USB devices

Content Protection

- Decryption of HDCPv2.2 protected content
- Decryption of SecureMedia DRM protected content (live streams and VoD). SecureMedia Server and client license required.

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
- Remote IR control of Exterity Encoder AV sources

System

- CPU: ST40-300 650MHz
- RAM: 512MB
- Flash: 128MB (for firmware and configuration)
- OS: Linux 3.4.xx

Built-in User Interface

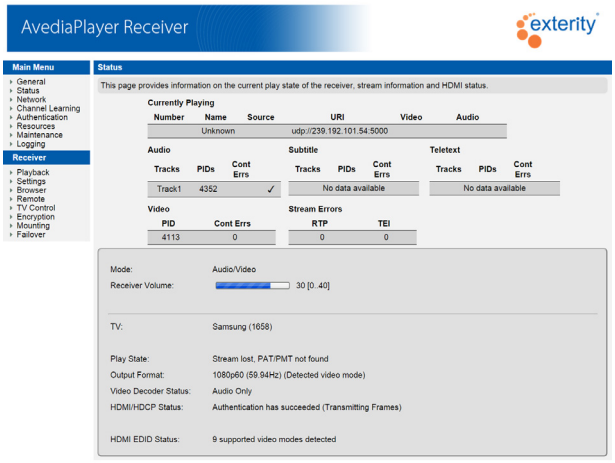
- Channel selection menu
- Volume control
- Audio Language control
- DVB Subtitles (ETSI EN 300 743)
- Closed captions (CEA-608 captions embedded in CEA- 708 data)
- Teletext
- Internationalization support

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 languages (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/SSH
- Serial RS232 Admin Port
- Terminal Control Interface (TCI)
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP
- Secure Mode option to lock down receiver access if required



Network

- Linux IPv4 stack
- DHCP or Static IP addressing
- IEEE 802.3u 10/100Mbps MDIX Ethernet
- IEEE 802.3af PD

Additional Features

- **Video wall** - fine control of display to allow the creation of video walls using receivers, includes wall position control and TV bezel compensation.
- **Unit-to-unit sync** - Multiple receivers showing the same TV channel automatically synchronize video and audio to one video frame.
- **Low Latency** – Sub 500ms system latency between Exterity Encoders and Receivers in full multicast IPTV environments.

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
- SecureMedia DRM protected content playback license
- HDCPv2 protected content playback license

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 (RFC2362), SNMPv1/v2c (RFC1157/RFC1901)

Regulatory

- CE, FCC, C-Tick compliant

EMC:

- EN55022: 2010, 47CFR: 2011 Part 15, Sub Part B (FCC)
- EN55024: 2010

Safety

- IEC 60950-1:2005 (Ed 2.0), AM1:2009, AM2:2013
- EN 60950-1:2006, A11:2009, A1:2010, A12:2011, A2:2013

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)

Power

- DC Jack (24V): 5W typical, 8W maximum
- POE IEEE 802.3af PD (48V): 5W typical, 8W maximum

MTBF

- Calculated to MIL-HDBK-217F, notice 2: 126295 hours (14.4 years)

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 TCI, Simple Network Management Protocol (SNMP) interface, JavaScript API and Native application support (DirectFB based development environment).

United Kingdom Headquarters
t: +44 (0) 1383 828 250
f: +44 (0) 1383 824 905
w : www.exterity.com
e : info@exterity.com

HQ Edinburgh, UK. Regional offices in Atlanta, Dubai, Hong Kong, Johannesburg, London, Munich and Paris.

Leading IPTV Delivery

exterity®