

## AvediaPlayer r9310 Media Player

A versatile IPTV stand-alone media player for connecting any TV or AV display device to your IP network. The AvediaPlayer r9310's low power consumption makes it an economical choice for enterprise video display and digital signage systems.



### Video Output

- HDMI v1.4b (with HDCP): 1080p, 1080i, 720p (50Hz/59.94Hz/ 60Hz), 576p, 576i (50Hz), 480p, 480i (59.94Hz/60Hz)
- Component (YPbPr, 3 x RCA): 1080i, 720p (50Hz/59.94Hz/ 60Hz), 576p, 576i (50Hz), 480p, 480i (59.94Hz/60Hz)
- Composite (CVBS, RCA): PAL 576i (50Hz), NTSC 480i (59.94Hz/60Hz)

### Audio Output

- HDMI: 2 or 6 Channel PCM or Bitstream
- Analog (2 x RCA): Unbalanced stereo (line level 1V pk-pk)
- TOS: 2 Channel PCM or Bitstream
- Dolby Digital and Dolby Digital Plus pass through

### Video Decoding

- MPEG-4 part 10 H.264 (ISO/IEC 14496/10)
- MPEG-2 (ISO/IEC 13818-2)
- Resolutions:
  - 1080i and 1080p @ 50Hz, 59.94Hz or 60Hz
  - 576i, 576p, 720p
  - 480i, 480p
  - 240p, 360p

### Audio Decoding

- MPEG-1 Layer II (ISO/IEC 11172-3)
- AC3/EAC3
- AAC/HE-AAC
- Down-mixes multi-channel audio to stereo

### Streaming

- MPEG 2 Transport Stream (ISO/IEC 13818-1)
- UDP, RTP
- HLS, (6Mbps limit for HLS)
- IP multicast, IP unicast
- IGMPv2/v3
- Video On-Demand: HLS, RTSP, HTTP

### USB 2.0 Port

- Can be used for external storage and Human Interface Devices
- USB hot plug enables auto-mounting of USB devices

### Content Protection

- Decryption of HDCPv2.2 protected content
- Decryption of Samsung LYNK™ DRM protected content (live streams) from an AvediaStream g4415-lk TVgateway and pre-encrypted VoD content hosted on an AvediaServer. Samsung LYNK DRM Client license required.
- Decryption of ARRIS SECUREMEDIA® DRM protected content (live streams and VoD) from an AvediaStream g4415-sm TVgateway. Encryptonite ONE™ Server and client license required.

Note: Decrypted content available only on HDMI interface to connected HDCP compliant device

### Channel Management

- Using the AvediaServer Smart Control app
  - Set channel
  - Set volume/mute
- On-device channel management
  - SAP/SDP announcements
  - Channel access control
  - XML channel lists, static & hidden channels
  - Channel redundancy & failover to channel or web page

### Infra-red/Control Options

- Built-in IR receiver
- 3.5mm jack for IR extender or tethered remote control
- Third party IR & USB remote controls supported
- TV control via Serial RS232 or HDMI CEC
- HDMI CEC Remote Control Passthrough

### System

- CPU: ST40-300 540MHz
- RAM: 512MB
- Flash: 256MB (for firmware and configuration)
- OS: STLinux 2.4

### 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 CEA708 data)
- Teletext subtitles

### Integrated Web Browser

- Ekioh TV Browser for digital signage and integration with third party middleware
  - HTML 5
  - CSS3 & DOM3
  - Image formats: PNG, JPEG

### Management

- Fully integrated with all Exterity management tools:
  - Admin level management using AvediaServer Director and AvediaCare applications
  - Day-to-day management using AvediaServer Smart Control application
  - HTTP/HTTPS device web interface; recommended browser: Chrome®
- Simple Certificate Enrollment Protocol (SCEP) for HTTPS
- SNMP
- UPnP device discovery
- RESTful API
- Console access via SSH and Serial RS232 Admin Port
- Terminal Control Interface (TCI) for control system integration
- Event logging via Syslog (local and remote)
- Firmware upgrade via TFTP
- Configuration backup/restore via TFTP
- Secure Mode option to lock down media player access

### Network

- Linux dual IPv4/IPv6 stack
- DHCP/DHCPv6 or Static IP addressing
- IEEE 802.3u 10/100Mbps MDIX Ethernet
- IEEE 802.3af POE PD
- IEEE 802.1X network authentication
- Simple Certificate Enrollment Protocol (SCEP) for 802.1X

### Additional Features

- Video wall capability
- Unit-to-unit sync capability
- Low end-to-end latency with full multicast delivery (sub 400ms end-to-end latency (specific settings required. Contact Exterity Support for more information))

### Options

- A wide range of optional accessories are available:
  - TV and under-desk mounting brackets
  - IR and wired remote controls and extenders
  - Power supplies for non-POE environments
  - ArtioSign® Display digital signage license

### Protocols

IP (RFC791), UDP (RFC768), TCP (RFC793), ARP (RFC826), DNS (RFC1035), DHCP (RFC2131), ICMP (RFC0792), IGMP v3 (RFC 3376), TFTP (RFC1350), HTTP (RFC2616), Syslog (RFC3164), NTP (RFC1305), SAP (RFC2974), SDP (RFC4566), RTP (RFC3550), RTSP (RFC2362), SNMPv1/v2c (RFC1157/RFC1901), HLS, HTTPS (RFC2818), 802.1X (RFC3580), SSDP, IPv6 (RFC 8200), DHCPv6 (RFC 8415), SLAAC (RFC 4862), MLD (v2) (RFC 3810), NDP (RFC 4861)

### 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, FCC, UL, CSA, ACMA compliant
- CE
  - EN55022:2010
  - EN55024:2010
  - EN 61000-3-3:2008
  - IEC 60950-1:2005 (Ed. 2.0) + Am 1:2009 +Am 2:2013
  - EN60950-1 2006 + A11:2009, A1:2010, A12:2011, A2:2013
- FCC/UL/CSA
  - 47CFR:2011 Part 15, Sub Part B
  - ANSI C63-4:2003
  - UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. October 14, 2014
- ACMA
  - EN55022:2010 + AC2011
  - AS/NZS 60335.1:2011 +A1

### Dimensions

- 43mm (H) x 222mm (L) x 95mm (D)

### Weight

- 0.6kg

### Power

- DC Jack (24V): 7W typical, 11W maximum
- POE IEEE 802.3af PD (48V): 7W typical, 11W maximum

### MTBF

- Calculated to MIL-HDBK-217F, notice 2: 116239 hours (13.3 years)