

4K UHD IPTV set top box which delivers digital signage capabilities and advanced network video decoding. Its fanless design, PoE functionality and low power consumption make it an economical choice for enterprise video display and digital signage systems.



### Video Output

- HDMI v2.0 (with HDCP 1.4 & 2.2):
  - 2160p (24Hz/50Hz/60Hz)
  - 1080p, 1080i, 720p (50Hz/59.94Hz/60Hz)
  - 576p, 576i (50Hz)
  - 480p, 480i (59.94Hz/60Hz)
- HDR Support:
  - HDR10
  - HLG

### Audio Output

- HDMI: 2 or 8 Channel PCM or Bitstream

### Video Decoding

- H.265 HEVC main and main 10 profiles (ISO/IEC 23008-2). Resolutions up to UHD 2160p60
- MPEG-4 part 10 H.264 (ISO/IEC 14496-10)
- MPEG-2 (ISO/IEC 13818-2). Resolutions up to Full HD 1080p60

### Audio Decoding

- MPEG-1 Layer II (ISO/IEC 11172-3)
- AAC-LC/HE-AAC
- Dolby Digital Plus (decode and bitstream pass through)

### Streaming

- MPEG 2 Transport Stream (ISO/IEC 13818-1)
- UDP
- IP multicast, IP unicast
- IGMPv2/v3

### Storage Capacity

- 32GB for video and digital signage content storage

### Integrated Web Browser

- Ekioh TV Browser for digital signage and integration with third party middleware
  - HTML 5
  - CSS 3 & DOM 3
  - Image formats: PNG, JPEG

### Content Protection

- Decryption of HDCPv2.2 protected content

### Management

- Console access via SSH and Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Day-to-day management using the AvediaServer Smart Control app:
  - Reboot
  - Publish signage
  - Set channel
  - Set volume
  - Turn on/off
- Administration using the AvediaServer AvediaCare app:
  - Upgrade
  - Set Name and location

### Channel Management

- Server-based channel management
  - Automatic channel discovery from all Exterity head end equipment
  - Channel redundancy

### Security

- Management using HTTPS connection
- Firmware upgrade using Exterity-signed upgrades only
- Secure hardware platform

### Network

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

## System

- Linux-based

## Options

- TV and wall mounting brackets
- External AC-DC Power supply for non-POE environments
- ArtioSign® Display digital signage licence

## Protocols

IP (RFC791), UDP (RFC768), TCP (RFC793), ARP (RFC826), DNS (RFC1035), DHCP (RFC2131), ICMP (RFC0792), IGMP v3 (RFC 3376), HTTP (RFC2616), Syslog (RFC3164), NTP (RFC1305), SAP (RFC2974), SDP (RFC4566), HLS

## Environment

- Operating temperature: 0 ...+40°C / +32 ... +122°F
- Storage temperature: -20 ...+70°C / -4 ... +158°F
- Operating Relative Humidity: 5 – 95% (non-condensing)

## Dimensions

- 45mm (H) x 200mm (L) x 140mm (D)

## Weight

- 0.8 kg

## Power

- DC Jack (24V): 10W typical, 12W maximum
- POE IEEE 802.3af PD (48V): 10W typical, 12W max

## Regulatory

CE, FCC, UL, CSA, ACMA compliant

- CE
  - EN55032:2012 + corrigenda Aug 2012 & Dec 2012
  - EN55024:2010 + A1:2015
  - EN 61000-3-2:2014
  - EN 61000-3-3:2013
  - 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 C63-4:2014
  - UL60950-1/CSA C22.2 No. 60950-1, Second Edition. Rev. October 14, 2014
- ACMA
  - EN55032:2012
  - AS/NZS 60335.1:2015

## MTBF

- Calculated to MIL-HDBK-217F, notice 2: 101276 hours (11.6 years)

## ArtioSign

ArtioSign combines 4K video with full HD graphics to produce great digital signage content which can be displayed using the AvediaPlayer m9405.

ArtioSign's elements are used to create the digital signage content:

- Streamed & local video (up to 4K 2160p60)
- Images (up to 1920x1080)
- Text (static/multiline/scrolling)
- RSS feeds (scrolling)
- PDF/PowerPoint import
- Date/time
- Browser
- Meeting Room
- Weather (up to 5 day forecast)