

EP6 End-Point

4K UHD IPTV End-Point



4K UHD IPTV end-point which delivers interactive viewing portals and advanced network video decoding. Its fanless design and PoE+ functionality, combined with stunning 4K graphics, make it an excellent choice for demanding signage applications where premium video quality and high impact graphics are important.

Integrated with VITEC management platforms, the EP6 can be controlled and operated from a central management interface for the day-to-day administration of content, schedules, and user access rights. This single point of management simplifies the complexity and costs associated with the initial deployment of an advanced IPTV and signage solution, and ensures that the system is intuitive to operate, maintain, and scale, to easily adapt to customer requirements.

Designed with maximum video performance, lowest playback latency, and highest reliability in mind, VITEC's EP6 End-Point features 100% hardware-based video decoding, quad-HD/ dual-4K playback of live IPTV streams or video files, and solid state components, all packaged in a robust, all-metal enclosure with no moving parts.

Features & Benefits

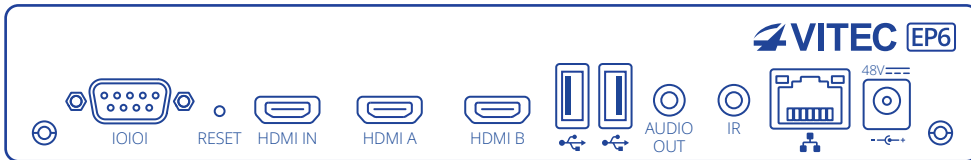
- Octa-core CPU, 64-bit RAM, Quad-core GPU, hardware video decoder
- UHD graphics at 60fps
- Play back dynamic Artio digital signage content, combining text, graphics and videos to engage audiences
- Supports up to two 4K or up to four HD IPTV streams
- Enable viewers to enjoy live and recorded TV, movies, information and more
- Quiet, fanless design
- Plug-and-play connectivity with Power over Ethernet (PoE+)
- Stream playback synchronized across multiple end-points

Technical Specification

Interfaces	
Network	1 x 100/1000 Mbps
HDMI Digital Video/Audio	2 x HDMI 2.0 w/ 4K, CEC Support
Analog Video/Audio	1 x 3.5mm jack stereo line level audio
USB	1 x USB 3.0+, 1 x USB 2.0
TVI Control Port	USB (Cable must incorporate an FTDI FT232R USB to serial chip)
IR Remote Control Sensor	✓
IR Extender Support (optional accessory)	✓
Touch interface support, using standard Human Interface Device (HID)	✓
Video Formats	
MPEG-2	Resolutions up to Full HD 1080p60
MPEG-4 AVC (H.264)	Resolutions up to 4K 2160p60 Main 10
HEVC (H.265)	Resolutions up to 4K 2160p60 Main 10
VP9	✓†
HTML5	✓
Maximum Resolution	3840 x 2160
Aspect Ratio	16:9, 4:3
High Dynamic Range (HDR)	HDR10
Audio Formats	
MPEG-1 Layer II (ISO/IEC 11172-3)	✓
MPEG-1 Layer III (MP3)	✓†
AAC	✓
AAC-LC/LC+	✓
AAC+	✓
HE-AAC	✓
AC-3/E-AC-3	✓
Streaming Protocols	
UDP TS	✓
Multicast and Unicast	✓
RTP TS	✓
RTSP	✓†
Apple HLS	✓
SRT	✓
Content Protection & DRM	
AES CBC 128/256-bit as part of VITEC Content Protection Solution	✓
Digital Signage Processing	
Multi-Stream Decoding	2 X 4K or 4 X HD streams/files
Picture-in-Picture (PIP)	✓
Alpha Channel	✓
Text/Graphics Overlays	✓
100% Hardware Video Decode	✓
Separate processing of video and graphics with no shared resources	✓
Web Technologies	Hardware accelerated HTML5 browser, with Blob video playback support
Emergency Management	✓
Low-delay playback of live IPTV Streams	up to 200ms decoding latency
Multi-Display Support	Mirrored output on up to 2 discrete displays †
Display Layouts Support	1 x 1
Vertical Signage Support	✓†
4K Graphics	✓†

Power	
PoE/PoE+	PoE+ (IEEE 802.3at - 2009)
External AC-DC PSU	24W Max, 90-264VAC*
Physical	
Dimensions	255mm W x 136mm D x 36mm H (10.04" W x 5.35" D x 1.42" H)
Weight	675g (1.49lb)
Internal Storage	64GB
IR Remote Control	EP+TV Control, 16 unique pairings
Enclosure	Robust aluminum chassis, fanless, 100% silent
Mounting	Built-in brackets
Environmental & Compliance	
Operating Temperature: PoE/PoE+ External AC-DC PSU	0°C to 50°C (32°F to 122°F), 0°C to 40°C (32°F to 104°F)
Relative Humidity: PoE/PoE+ External AC/DC PSU	5% to 95% (non-condensing) 10% to 90% (non-condensing)
RoHS-Compliant	✓
TAA-Compliant	✓
Regulatory	
CE/UKCA	IEC 62368-1, EN 62368-1, EN 55032, EN 61000-3-2, EN 61000-3-3, EN55035 / CISPR 35
UL/CSA	UL62368-1, CSA C22.2 No. 62368-1
FCC	47CFR Part 15, Sub Part B, ANSI C63-4
RCM	AS/NZS 62368

Rear Panel Interface



Ordering Information (P/N)

- 18899 – Avedia EP6 End-Point
- 19001 – Avedia - License - floating EP6 client for Portals - 1 End-Point
- 19019 – Avedia - License - floating EP6 client - Universal - 1 End-Point
- 18845 – Avedia - License - VITEC Content Protection (AES) - 1 End-Point
- 18901 – EP6 Slimline PSU (US)
- 18902-xx – EP6 PSU with AU/EU/UK plug
- 18322 – IR remote control
- 18321 – IR remote extender

† Future release for 2 x HDMI
* Separate orderable item