



IPTV & Digital Signage Platform End-Points

VITEC's offering for End-Points features a full range of professional-grade, hardware-based digital video players for playback of live IPTV streams, video on demand content and engaging digital signage content.

Integrated with VITEC's EZ TV Platform, all end-points are 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 up to constantly enhance the user experience.

Designed with maximum video performance, lowest playback latency and highest reliability in mind, VITEC's IPTV and Digital Signage end-points feature 100% hardware-based video decoding, dual-HD/4K (EP4 and EP5/EP6 respectively) playback of live IPTV streams or files and solid state components, all packaged in a robust enclosure with no moving parts.

Features & Benefits

- Professional-grade set-top boxes for reliable playback of live and recorded IPTV streams and digital signage content
- Discrete hardware processors for IP video decoding and signage graphic payout
- Decode two HD/4K IP streams/video files simultaneously for eye-catching signs or Picture-in-Picture view
- AES decryption approved by major content providers
- Microsoft Active Directory support for Single Sign-On workflow in conjunction with corporate domain and security policies
- Robust, fanless and 100% silent compact appliance designed for demanding environments
- Integrated mounting brackets
- TV control using RS-232 serial interface
- PoE/PoE+ support
- TAA-compliant
- API for integration/control by external control systems such as AMX/Crestron/mobile devices



EP6



EP5+



EP5



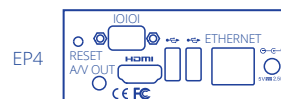
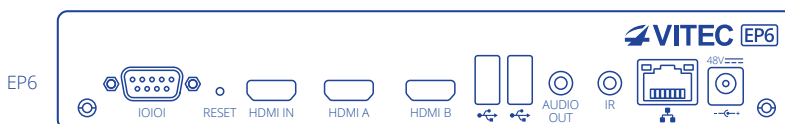
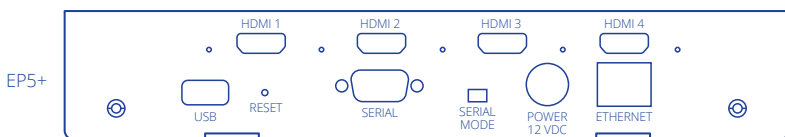
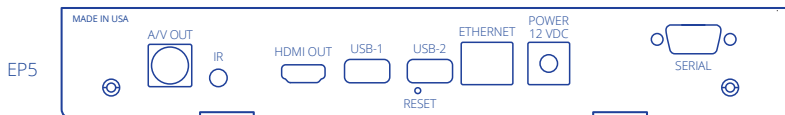
EP4

IPTV and Digital Signage End-Point Specifications

	EZ TV EP4	EZ TV EP5	EZ TV EP5+	EZ TV EP6
Interfaces				
Network	1 x 10/100 Mbps	1 x 100/1000 Mbps		
HDMI Digital Video/Audio	1 x HDMI 1.4a w/ CEC Support	1 x HDMI 2.0 w/ 4K, 3D, CEC support	4 x HDMI 1.4a	2 x HDMI 2.0 w/ 4K CEC Support
Analog Video/Audio	1 x mini-din break-out cable for composite video + unbalanced stereo audio	1 x mini-din break-out cable for Component RGB or YPrPb + unbalanced stereo audio		1 x 3.5mm jack stereo line level audio
USB	2 x USB 2.0	1 x USB 3.0/1 x USB 2.0		
TVI Control Port	1 x RS-232			
IR Remote Control Sensor	✓	✓	✓	✓
IR Extender Support (optional accessory)	✓	✓	✓	✓
Video Formats				
MPEG-2	✓	✓	✓	✓
MPEG-4 AVC (H.264)	✓	✓	✓	✓
HEVC (H.265)		✓	✓	✓
VP9		✓	✓	✓†
HTML5		✓	✓	✓
XVID		✓	✓	
DIVX		✓	✓	
Maximum Resolution	1920 x 1080	3840 x 2160		
Aspect Ratio	16:9, 4:3			
High Dynamic Range (HDR)		✓	✓	✓†
Audio Formats				
MPEG-1 L2	✓	✓	✓	✓
MPEG-1 L3 (MP3)	✓	✓	✓	✓†
AAC	✓	✓	✓	✓
AAC-LC/LC+		✓	✓	✓
AAC+		✓	✓	✓
AAC-HE	✓	✓	✓	✓
WMA	✓	✓	✓	
WMA Pro		✓	✓	
AC-3	✓	✓	✓	✓
E-AC-3		✓	✓	✓
AAC-HE 5.1 with DTS 5.1 (SPDIF output)		✓	✓	
AAC-HE 5.1 with AC3 5.1 (SPDIF output)		✓	✓	
Streaming Protocols				
UDP TS	✓	✓	✓	✓
Multicast and Unicast	✓	✓	✓	✓
RTP TS	✓	✓	✓	✓
RTSP	✓	✓	✓	✓†
Apple HLS	✓	✓	✓	✓
SRT		✓	✓	✓
Content Protection & DRM				
MPEG TS with AES 128-bit	✓	✓	✓	✓
VITEC Ocaster Encryption	✓	✓	✓	✓
VITEC ChannelLink Encryption	✓	✓	✓	✓
VITEC MGW Encryption	✓	✓	✓	✓
ATX Ucrypt Encryption	✓	✓	✓	✓
Harmonic ProStream Encryption	✓	✓	✓	✓
MS Active Directory Integration	✓	✓	✓	✓
Power				
PoE/PoE+	PoE (IEEE 802.3af – 2003)	PoE+ (IEEE 802.3at – 2009)		
External AC-DC PSU	12W Max, 90-264VAC	24W Max, 90-264VAC		24W Max, 90-264VAC*

	EZ TV EP4	EZ TV EP5	EZ TV EP5+	EZ TV EP6
Physical				
Dimensions	102mm W x 96mm D x 43mm H (4.01" W x 3.77" D x 1.69" H)	246mm W x 154mm D x 32mm H (9.68" W x 6.06" D x 1.25" H)	240mm W x 232mm D x 42mm H (9.45" W x 9.13" D x 1.65" H)	255mm W x 136mm D x 36mm H (10.04" W x 5.35" D x 1.42" H)
Weight	400g (0.88 lb)	775g (1.7 lb)	980g (2.1 lb)	675g (1.49 lb)
Internal Storage	16GB	32GB (Expandable up to 512GB)	32GB	64GB
IR Remote Control	EP+TV Control, 16 unique pairings		EP+TV Control	EP+TV Control, 16 unique pairings
Enclosure	Robust metal chassis, fanless, 100% silent	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)			
EMC Standards	FCC Part 15 Class B	FCC Part 15		FCC Part 15 Class A
RoHS-Compliant	✓	✓	✓	✓
TAA-Compliant	✓	✓	✓	✓
Digital Signage				
Multi-Stream Decoding	2 x 1920 x 1080 streams/files	2 x HD or 1 x HD + 1 x 4K streams/files		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	HTML, JavaScript, PHP	HTML, JavaScript, PHP, HTML5, CSS		Hardware accelerated HTML5 browser, with Blob video
Emergency Management	✓	✓	✓	✓
Low-delay playback of live IPTV streams	250ms decoding latency	300ms decoding latency		
Multi-Display Support			Up to 4 discrete displays	Mirrored output on up to 2 discrete displays †
Display Layouts Support	1 x 1	1 x 1	1 x 1, 1 x 2, 1 x 3, 1 x 4, 2 x 1, 3 x 1, 4 x 1, 2 x 2	1 x 1
Vertical Signage Support		✓	✓	✓
4K Graphics				✓

Rear Panel Interface



* Separate orderable item
† Future release