



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 respectively) playback of live IPTV streams or files and solid state components, all packaged in a rugged 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 integrated engine with the major content providers AES implementation
- Microsoft Active Directory support for Single Sign-on workflow in conjunction with corporate domain and security policies
- Rugged, fanless and 100% silent compact appliance designed for harsh environments
- VESA-compatible 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



EP5+



EP5



EP4

IPTV and Digital Signage End-Point Specifications

	EZ TV EP4	EZ TV EP5	EZ TV EP5+
Interfaces			
Network	1 x 10/100 Mbps	1 x 100/1000 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
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 mini-din break-out cable for Component RGB or YPrPb + unbalanced stereo audio
USB	2 x USB 2.0	1 x USB 3.0 / 1 x USB 2.0	1 x USB 3.0 / 1 x USB 2.0
TVI Control Port	1 x RS-232	1 x RS-232	1 x RS-232
IR Remote Control Sensor	✓	✓	✓
IR Extender Support (Optional Accessory)	✓	✓	✓
Video Formats			
MPEG-2	✓	✓	✓
MPEG-4 AVC (H.264)	✓	✓	✓
VC-1/WMV	✓	✓	✓
HEVC (H.265)		✓	✓
VP9		✓	✓
HTML5		✓	✓
XVID		✓	✓
DIVX		✓	✓
Maximum Resolution	1920x1080	3840x2160	3840x2160
Aspect Ratio	16:9, 4:3	16:9, 4:3	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		✓	✓
Dolby Digital / AC3	✓	✓	✓
Dolby Digital Plus		✓	✓
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		✓	✓
Vertical Signage			
Vertical Signage support		✓	✓
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	✓	✓	✓

	EZ TV EP4	EZ TV EP5	EZ TV EP5+
Power			
PoE/PoE+	PoE (IEEE 802.3af – 2003)	PoE+ (IEEE 802.3at – 2009)	PoE+ (IEEE 802.3at – 2009)
External AC-DC PSU	12W Max, 90-264VAC	24W Max, 90-264VAC	24W Max, 90-264VAC
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)
Weight	400g (0.88 lb)	775g (1.7 lb)	980g (2.1lb)
Internal Storage	16GB	32GB (Expandable up to 512GB)	32GB
IR Remote Control	EP+TV Control, 16 unique pairings	EP+TV Control	EP+TV Control
Enclosure	Rugged metal chassis, fanless, 100% silent	Rugged aluminum chassis, fanless, 100% silent	Rugged aluminum chassis, fanless, 100% silent
Mounting	Built-in brackets	Built-in brackets	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)	0°C to 50°C (32°F to 122°F) 0°C to 40°C (32°F to 104°F)	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)	5% to 95% (non-condensing) 10% to 90% (non-condensing)	5% to 95% (non-condensing) 10% to 90% (non-condensing)
EMC Standards	FCC Part 15 Class B	FCC Part 15	FCC Part 15
RoHS-compliant	✓	✓	✓
TAA-compliant	✓	✓	✓
Digital Signage Processing			
Multi-stream HD Decoding	2 x 1920x1080 streams/files	2xHD or 1xHD + 1x4K streams/files	2xHD or 1xHD + 1x4K 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	HTML, JavaScript, PHP, HTML5, CSS
Emergency Management	✓	✓	✓
Low delay playback of live IPTV streams	250ms decoding latency	300ms decoding latency	300ms decoding latency
Multi-display Support			Up to 4 discrete displays
Display Layouts Support	1x1	1x1	1x1, 1x2, 1x3, 1x4, 2x1, 3x1, 4x1, 2x2

Rear Panel Interfaces

