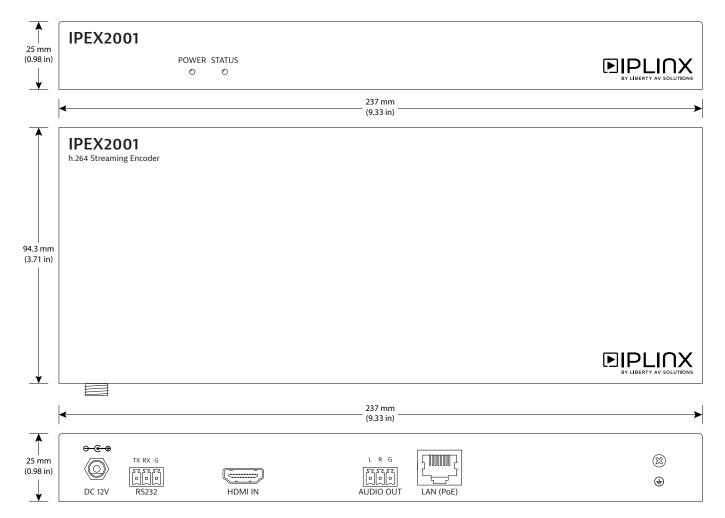# IPEX2001 Technical Specifications
AV over IP h.264 Encoder
Rev 160921

The IPLinx IPEX2001 transmits HDMI video and audio over a gigabit IP network using CBR or VBR h.264 AVC encoding with a configurable data rate up to 30 Mbps. The IPEX2001 supports video signals up to 1920x1200 at 60 Hz. The IPEX2001 outputs two video streams: one large IP stream at the native content resolution and a smaller video stream at 352x288 at 5 Hz to easily view a preview of the content on the IPLinx Control software for Windows and iPad. Up to 999 encoders may be used to create an incredible matrix or switching system within a single installation. An analog audio output port de-embeds the audio from the HDMI content, while still streaming the audio with the video content.

The IPEX2001 supports PoE and can be powered remotely by compatible power source equipment, such as a PoE Ethernet switch, eliminating the need for a nearby power outlet. Encoding control provides adjustments for encoding bit rate and quality. The RS232 port operates in a pass-through capacity to control a third party device such as a projector.

The IPEX2001 requires an IPEXCB control box and is compatible with IPEX2002 and IPEX2003MV streaming decoders.

Input/Output Connections	
HDMI Input	One (1) HDMI Type A Receptacle
LAN	One (1) 8P8C port (Shielded RJ45)
Power	One (1) 5.5 mm OD, 2.6 mm ID Threaded Barrel
RS232 Port	One (1) 3-pin Removable Terminal Block Connector
Audio Output	One (1) 3-pin Removable Terminal Block Connector
Supported Audio, Video and Control	
Video Resolutions	SMPTE: 480p, 576p, 720p, 1080i, 1080p VESA: Resolutions up to 1920x1200 Color Depth: 24, 30, 36 bit
Video Compliance	HDMI 1.3 and HDCP 1.3
Embedded Audio	Up to PCM 6 channel, Dolby Digital, and DTS
ARC (Audio Return Channel)	No
HEC (HDMI Ethernet Channel)	No
CEC (Consumer Electronics Control)	Yes
Supported Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200
Streaming Signal Characteristics	
Maximum Distance (point to point)	100 m (328 ft)
Cable Requirements	Category 5e or greater with TIA/EIA-568B crimp pattern
Encoding Data Rate	64 Kbps to 30 Mbps
Encoding Method	CRB or VBR
End to End Latency	Low Latency/Quality Mode: 79 ms High Quality Mode: 250 ms
Maximum Supported Encoders	999
Maximum Video Wall Size	16 x 16
Chassis and Environmental	
Construction	Black Steel
Dimensions (H x W x D)	25 mm x 237 mm x 94.3 mm (0.98in x 9.33 in x 3.71 in)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
Power and Regulatory	
Power Input	12V DC 1A or 48V DC PoE (Power over Ethernet)
Power over Ethernet (PoE) Compatibility	802.3af Alternative A
Power Consumption	6 watts
ESD Protection	8kV air, 4kV contact
Regulatory	FCC, CE, RoHS
Other	
Warranty	2 years
Diagnostic Indicators	Power and Status
Included Accessories	Installation Guide, Power Supply with US, UK, EU and AU adapters, 3-pin Removable Screw Terminal (2 ea), Mounting Ears (2 ea)
IP Controller	IPEXCB
Compatible Decoders	IPEX2002, IPEX2003MV

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.