

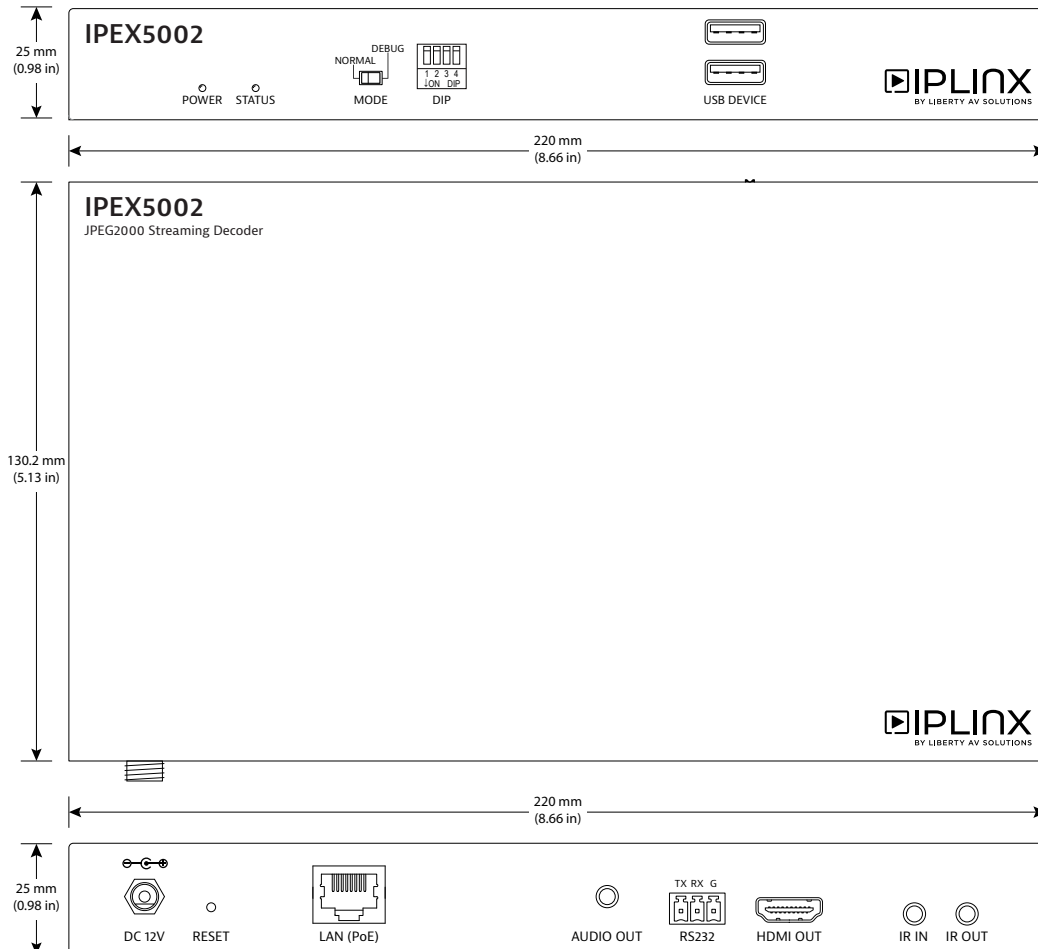
## IPEX5002 Technical Specifications

AV over IP JPEG2000 Decoder  
Rev 160708

The IPLinx IPEX5002 receives HDMI video and audio over a gigabit IP network using JPEG2000 encoding with a variable data rate up to 250 Mbps. The IPEX5002 supports video signals up to 4K at 60 Hz 4:2:0 with HDCP 2.2 and 7.1 multichannel audio support. The IPEX5002 outputs video up to 4K at 60 Hz 4:2:0 and will scale the content based on the native resolution of the connected display. Using a 48 port gigabit switch, up to 45 decoders may be used to create an incredible matrix or distribution system within a single installation. Depending on the needs of the installation, multiple IPEX5002 devices can be configured to make a video wall up to a 16x16 configuration. An analog audio output port embeds the audio from the HDMI content, while still passing the audio to the HDMI output.

The IPEX5002 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. The RS232 port relays commands from the IP controller and operates in a pass-through capacity to control a third party device such as a projector. The USB connection passes keyboard and mouse signals from the IPEX5002 decoder to the IPEX5001 encoder.

The IPEX5001 requires a single IPEX5002 for a point to point installation. When multiple IPEX5001 and/or IPEX5002 devices are in a system, an IPEXCB control box will be required.



<b>Input/Output Connections</b>	
HDMI Input	One (1) HDMI Type A Receptacle
HDMI Output	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
USB Device	Two (2) USB Type A Port
Audio Output	One (1) 3.5 mm TRS Receptacle
IR Input	One (1) 3.5 mm TRS Receptacle
IR Output	One (1) 3.5 mm TRS Receptacle
Reset	One (1) Momentary Push Button
Mode	One (1) Two Position Slider Switch
DIP	One (1) Four Position DIP Switch
<b>Supported Audio, Video and Control</b>	
Video Resolutions	SMPTE: 480p, 576p, 720p, 1080i, 1080p, 2160p/30 (4:4:4), 2160p/60 (4:2:0) VESA: Resolutions up to 1920x1200 Color Depth: 24, 30, 36 bit
Video Compliance	HDMI 1.4/2.0 and HDCP 1.4/2.2
Embedded Audio	Up to PCM 8 channel, Dolby Digital True HD, and DTS-HD Master Audio
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
USB Compliance	HID only
<b>Streaming Signal Characteristics</b>	
Maximum Distance (point to point)	100 m (328 ft)
Cable Requirements	Category 5e or greater with TIA/EIA-568B crimp pattern
Encoded Data Rate	2160p: 250 Mbps 1080p: 150 Mbps
Encoded Method	VBR
End to End Latency	17-33 ms (1-2 fps)
Maximum Video Wall Size	16x16
<b>Chassis and Environmental</b>	
Construction	Black Steel
Dimensions (H x W x D)	25 mm x 220 mm x 130.2 mm (0.98in x 8.66 in x 5.13 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
<b>Power and Regulatory</b>	
Power Input	12V DC 1A or 48V DC PoE (Power over Ethernet)
Power over Ethernet (PoE) Compatibility	802.3af Alternative B
Power Consumption	6 watts
ESD Protection	8kV air, 4kV contact
Regulatory	FCC, CE, RoHS
<b>Other</b>	
Warranty	2 years
Diagnostic Indicators	Power and Status
Included Accessories	Installation Guide, Power Supply, 3-pin Removable Screw Terminal, Mounting Ears (2 ea), IR emitter, IR receiver
IP Controller	IPEXCB
Compatible Encoder	IPEX5001

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