



10G SDVoE AV over IP



The IPX Series provides one of the most advanced IP Streaming solutions on the market utilizing SDVoE technology. It is the industry's first 4K2K transceiver and simultaneous transceiver (One Cable for encode and decode at same time!) with zero compression (4K60 4:2:0, 4K30 4:4:4), lossless compression (4K60 4:4:4), and zero frame latency based on the SDVoE platform. Using a transmitter (encoder) and receiver (decoder), respectively, used to be the standard – until now. The IPX can be set up as either one or both at the same time to make installation, inventory, and troubleshooting easier. Another industry first is the option slot to add other IP capabilities, like ExtremeUSB® (USB 2.0 over IP) or Dante® audio, for a more complete, distributed system.

Audio, video, data, and control can be sent securely to one or many units using off-the-shelf 10G Ethernet switches. When the IPX is transmitting, the 2 HDMI inputs become a source switch and the HDMI output becomes a potential loop out or receive as well (TS3A). When receiving, a user can select the local HDMI inputs which can also be transmitted or a remote IP source. Seamless switching and windowing of the sources further enhances the presentation. Regardless of how the IPX is set up, the audio can be de-embedded at any location, break away, and/or be sent to or received from a Dante® enabled device. The USB 2.0 option is also flexible, working as a KVM and/or a high-speed data transfer (480Mbps) for memory sticks. Each IPX USB feature can also be set as a host or a device. To keep the system friendly, a customizable OSD and web server are available to be programmed as required. For RJ-45 LAN devices, the 1G Ethernet port allows full bandwidth end-to-end over the IPX 10G fiber or copper port.

Choice is important. That's why the IPX fiber version has an SFP+ port that can use single or multi-mode fiber – making the IPX Series the ultimate AV IP product on the market today.

Features

- Simultaneous Transmitter (Encoder) and Receiver (Decoder) over single CAT cable (IPX-TS3A-CF Pro Box & IPX-TS3A-WP3 Wall Plate)
- 4K60 4:4:4 Over 10G Fiber or Copper
- 1.3:1 Lossless Compression and Zero Frame Latency (100us) for 4K60 4:4:4
- Zero Compression/Frame Latency (22us) for 4K60 4:2:0 and below
- Secure Content Encryption
- 128x128 Capable with HDCP, Larger for Non-Encrypted Sources
- Video Wall Capability (8x8)
- Windowing/Multi-viewer up to 16 windows
- 3ms Scaling
- Seamless Switching including local inputs & Break-away Switching
- Audio DSP
- SFP+ for Multi/Single Mode Fiber
- Dual Fiber Redundancy (IPX-TC3A-DF)
- 10/100/1000Mbps LAN PoE (PD)
- Line In/Out Stereo
- RS-232 Serial Port and IR (Bidirectional)
- USB 1.1 (HID) or USB 2.0 480Mbps IP Extension
- Dante®/AES67 IP 2Ch and 8Ch Audio (Optional)
- ReAX IP Control (Option)
- Front Keypad with OLED Display
- Auto Sense Switching
- Rack and Under Table Mounting



Variety of models for true flexibility.



IPX-TC3A-C – Base model transceiver



IPX-TC3A-CF-Pro – Seamless Switching, Scaler, Windowing, & 10G SFP+



IPX-TC3A-DF-Pro – Seamless Switching, Scaler, Windowing, & Dual 10G SFP+



IPX-TS3A-CF-Pro – Simultaneous Encode/Decode, Seamless Switching, Scaler, Windowing, & 10G SFP+



IPX-TX3A-WP2-C – Base Model Encoder 2-Gang Decora Wall Unit.



IPX-TC3A-WP3-Pro – Encode or Decode, Seamless Switching, Scaler, Windowing. Copper & Fiber Models Available.
IPX-TS3A-WP3-Pro – Simultaneous Encode or Decode, Seamless Switching, Scaler, Windowing. Copper or Fiber.

Technical Specifications

Model Name	IPX-Series
Technical	
Resolution	4K60 4:4:4
Compression	Zero (4K30 4:4:4/4K60 4:2:0), 1.3:1(4K60 4:4:4)
Latency	Zero Frame Latency (100us without Scaling, 3ms with Scaling)
HDMI Inputs	Two HDMI 2.0 with HDCP 2.2
HDMI Outputs	One HDMI 2.0 with HDCP 2.2
Audio Analog	Stereo Line In/Out
SFP+	10G for SDVoE (Single Mode or Multi-Mode)
10G Copper Ethernet	RJ-45 330ft(100m) with CAT 6A PoE
1G LAN	RJ-45 10/100/1000M PoE (PSE)
Video Bandwidth	600MHz
Video support	Up to 4K2K 4:4:4 @60Hz
Audio support	Up to 32 channels & Break-away Capable
RS-232	Up to 115k Baud
IR	30KHz-60KHz
USB Function	USB 1.1 Standard 10Mbps or USB 2.0 480Mbps
USB Connectors	ExtremeUSB 2 x USB 2.0 Type A, 1 x USB 2.0 Type-C
Expansion Ports	ExtermeUSB® & Dante®
Interface	IR or Keypad for OSD and OLED, Webserver, IPBaseT Manager
Advanced Features (Pro Models)	Scaler, Videowall, & Windowing

Note: Specifications listed will be according to specific model feature set.

Mechanical	IPX Box Versions
Housing	Black Aluminum Enclosure
Dimensions [L x W x H]	175 x 102 x 27.7mm [6.875" x 4" x 1.09"]
Weight	0.453kg [1.0lbs]
Mounting	Rack mount (optional) and included under table/wall mount
Power supply	PoE on 1G or 10G LAN ports
Max Power consumption	12.9 Watts
Operation temperature	0~40°C [32~100°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH [no condensation]

Mechanical	IPX Wall Versions
Housing	2 Gang or 3 Gang Decora White or Black
Dimensions [L x W x H]	3.728" x 2.83" x 1.404" (2 Gang) 5.54" x 2.83 x 1.404" (3 Gang)
Mounting	Wall Box or Low Voltage Electrical Rings to fit Dim Above
Power supply	PoE 10G LAN port or 48V DC
Max Power consumption	12.9 Watts
Operation temperature	0~40°C [32~100°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH [no condensation]

Specifications herein are subject to change without notification.