

“Perceivably Perfect” 4K60 4:4:4 1Gbps AV over IP Transceiver



The VPX-TC1 Pro Series provides one of the most advanced 1G IP Streaming solutions on the market utilizing Aurora's new Mimix™ CODEC technology. Mimix™ compression allows for near perfect reproduction of video and graphic images at resolutions up to 4K60 4:4:4 over 1G networks. It has only one frame (16.6ms) of latency and seamless switching for fast lag free content. Power consumption is important as the VPX-TC1 uses as little as 8 watts. It does this with no fan and a small form factor saving a lot of money in utility bills as it uses 1/3 the power of comparable systems.

Features:

- Configure as Encoder or Decoder
- 4K60 4:4:4 UHD 120m over 1G CAT 5e
- HDMI 2.0b, HDCP 2.2
- HDR10, HDR10+, Dolby Vision
- LPCM up to 12-channels, Dolby Digital Plus, Dolby TrueHD DTS HD Master Audio & ATMOS
- 12 bits color depth processing, 16bits OSD
- Enterprise Security (AES 256, 802.1x, HTTPS, & SSH)
- One Frame Latency (16.6ms)
- Low Power Fanless Design
- Seamless Switching
- MJPEG Preview at up to 30 frames
- Video Wall with Image Rotation
- 1G LAN PoE and SFP for Fiber or 2nd RJ-45
- 2 HDMI Inputs, 1 HDMI Output
- Line In/Out Stereo
- RS-232 Serial Port and IR (In/Out)
- Channel Mapping with On-Screen Preview & EPG
- Integrated Web Server for Configuration
- 2 USB 2.0 for Cameras
- 3 USB 2.0 for HID Devices, Mass Storage, etc.
- Dante® 2/8 Ch Audio License Options & Dante Controller
- Rack and Under Table Mounting

Audio, video, data, and control can be sent securely to one or many units using off-the-shelf 1G RJ-45 Ethernet switch. When the VPX-TC1 is set up to be a transmitter, the 2 HDMI inputs become a source switch and the HDMI output becomes a potential loop out. When set up as a receiver, a user can select the local HDMI inputs or an IP source. Seamless switching of the sources further enhances the presentation. Regardless of how the VPX-TC1 is set up, the audio can be de-embedded at any location, and/or be sent to or received from a Dante® enabled device. The USB is also flexible, working as a KVM and/or a high-speed data transfer for memory sticks & another port just for cameras. To keep the system friendly, an OSD and integrated web server are available for easy navigation and setup of features.

Digital signage, education, corporate, and residential are just a few markets which benefit from the flexibility and low cost of the VPX-TC1.

Videowall with Image Rotation



KVM Roaming Feature One Set of Keyboard/Mouse Controls All PCs



Technical Specifications:

Model Name	VPX-TC1
Technical	
Compression	Mimix™ 14:1
Latency	1 Frames (16.6ms)
HDMI Inputs	2 (HDMI 2.0b, HDCP 2.2)
HDMI Outputs	1 (HDMI 2.0b, HDCP 2.2)
Encryption	AES 256
Audio Analog	Stereo Line In/Out (3.5mm TRS)
1G Ethernet	RJ-45 and SFP
LAN	RJ-45 10/100/1000M PoE
Video Bandwidth	600MHz
Video Support	Up to 4K2K 4:4:4 @ 60Hz
Audio Support	Up to 12 Channels
Video Stream Bandwidth	93Mbps – 850Mbps (4K60 4:4:4) Packet Size Under 1600 1Gbps with USB and Audio
USB Bandwidth	200Mbps (Camera) 170Mbps (HID/Mass Storage Devices)
RS-232	Up to 115k Baud (3.5mm TRS)
IR	Bi-Directional (3.5mm TRS)
USB Connector	1 USB 2.0 Type C (Host for Camera) 1 USB 2.0 Type C (Host for HID/Mass Storage) 1 USB 2.0 Type A (Camera) 2 USB 2.0 Type A (HID/Mass Storage Devices)
Expansion Port	Dante® 2Ch/8Ch and ReAX™
Interface	IR or Keyboard via OSD, Web Server
Mechanical	
Housing	Black Aluminum Enclosure
Dimensions (L x W x H)	177.04 x 150.7 x 26.42mm [6.97" x 5.93" x 1.04"]
Weight	.453kg [1lbs]
Mounting	Optional: Rack Mount Vertical, Rack Mount Horizontal, Under Table Mount
Power Supply	48v DC (2 Pin Euro) or PoE+ (LAN)
Power Consumption	8 Watts and up to 12 Watts additional for USB with PoE+
Operation Temperature	0~40° C [32~104° F]
Storage Temperature	-20~60° C [-4~140° F]
Relative Humidity	20~90% RH [No Condensation]
Package Contents	1x VPX-TC1, 2x Mounting Ears

Note: Specifications subject to change without notice.