# “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.


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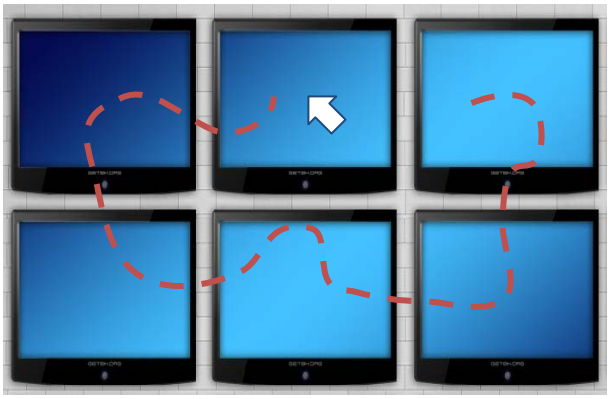
Videowall with Image Rotation

**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<br>1Gbps with USB and Audio |
| USB Bandwidth | 200Mbps (Camera)<br>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)<br>1 USB 2.0 Type C (Host for HID/Mass Storage)<br>1 USB 2.0 Type A (Camera)<br>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<br>[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 | 0~40º C [32~104º F] |
| Storage Temperature | -20~60º C [-4~140º F] |
| Relative Humidity | 20~90% RH [No Condensation] |
| **Package Contents** | 1x VPX-TC1, 2x Mounting Ears |

***Note: Specifications subject to change without notice.***



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