

4K IP Audio/Video Distribution Transceiver

Features

- ◆ Configure as Transmitter (Encoder) or Receiver (Decoder)
- ◆ 4K UHD Over 1G CAT5/5e/6/6a
- ◆ HDMI 2.0, HDCP 2.2
- ◆ Visually Lossless with only 1.5 Frame Latency
- ◆ 128x128 Capable with HDCP, Larger for Non-Encrypted Sources
- ◆ Videowall with Image Rotation
- ◆ 1G LAN PoE
- ◆ 2 HDMI Inputs, 1 HDMI Output
- ◆ Line In/Out Stereo
- ◆ RS-232 Serial Port & IR (In/Out)
- ◆ On Screen Display (OSD)
- ◆ Integrated Web Server for Configuration
- ◆ USB 2.0 Host and Device ports
- ◆ Two USB 1.1 for HID devices
- ◆ Dante® IP Audio Option
- ◆ Front Keypad & IR Remote
- ◆ Rack & Under Table Mounting



Made in the USA
Patent Pending

iPBT[™]
ASE

The **VLX-TC1 Series** provides one of the most advanced IP Streaming solutions on the market utilizing Aurora's IPBaseT™ technology, which synergizes various IP/AV standards to work together as one. It is the industry's first 4K UHD transceiver with only 1.5 Frame (25ms) latency and visually losses compression. Using a transmitter (encoder) and receiver (decoder), respectively, used to be the standard – until now. The VLX-TC1 Series can be set up as either one to make installation, inventory, and troubleshooting easier.

Another industry first is the option slot to add other IP capabilities, like 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 1G RJ-45 Ethernet switch. When the VLX-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 VLX-TC1 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 is also flexible, working as a KVM and/or a high-speed data transfer (480Mbps) for memory sticks. Each VLX-TC1 USB feature can also be set as a host or a device. 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 VLX-TC1.

Technical Specifications

Model Name	VLX-TC1
Technical	
Compression	8:1
Latency	1.5 Frames (25ms)
HDMI Inputs	2 (HDMI 2.0, HDCP2.2)
HDMI Outputs	1 (HDMI 2.0, HDCP2.2)
Audio Analog	Stereo Line In/Out (3.5mm TRS)
1G Copper Ethernet	RJ-45
LAN	RJ-45 10/100/1000M PoE (PSE)
Video Bandwidth	340MHz
Video support	Up to 4K2K 4:2:0 @60Hz
Audio support	Up to 32 channels & Break-away Capable
RS-232	Up to 115k Baud (3.5mm TRS)
IR	Bi-Directional (3.5mm TRS)
USB Connector	1 USB 2.0 Type A, 1 USB 2.0 Type B 2 USB 1.1 Type A
Expansion Port	Dante® Option
Interface	IR or Keypad via OSD, Webserver
Mechanical	
Housing	Black Aluminum Enclosure
Dimensions [L x W x H]	175 x 102 x 27.7mm [6.875" x 4" x 1.09"]
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	9 Watts
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 VLX-TC1

AV Room Combining Application

Picture three adjacent rooms separated by configurable dividers. This setup is very common to hospitality and business centers, and normally, AV functionality would require a lot of equipment with limitations to the overall configuration of the rooms. The VLX Series topology would be an VLX wall plate or several in each room with the Dante® option and run the CAT cable back to an industry standard 1G PoE switch. Next, run CAT cable to the VLX-TC1 configured as a receiver to the display device of each room. It's that simple.

But really - what can the VLX system do? First, any of the wall plates can be routed to any of the displays. The audio from any of these wall plates can be routed independently to a Dante® sound system to be mixed and amplified for the speakers. The audio never needs to be de-embedded nor does it ever convert to analog in its path to the amplifier. If overflow rooms are required, simply add more connections to the 1G switch along with more VLX-TC1. The system is only limited by the configuration of the switch and the imagination of the designer. For more information on this and other applications, contact sales@auroramm.com.

Note: Specifications subject to change without notice.