

iPBT[®]
ASE

Changing the Topology of AV



The Ultimate Solution for 4K AV Over IP

IPX-TC3



IPX-TC3 Pro



IPX-TC3-WP



VLX-TCW2



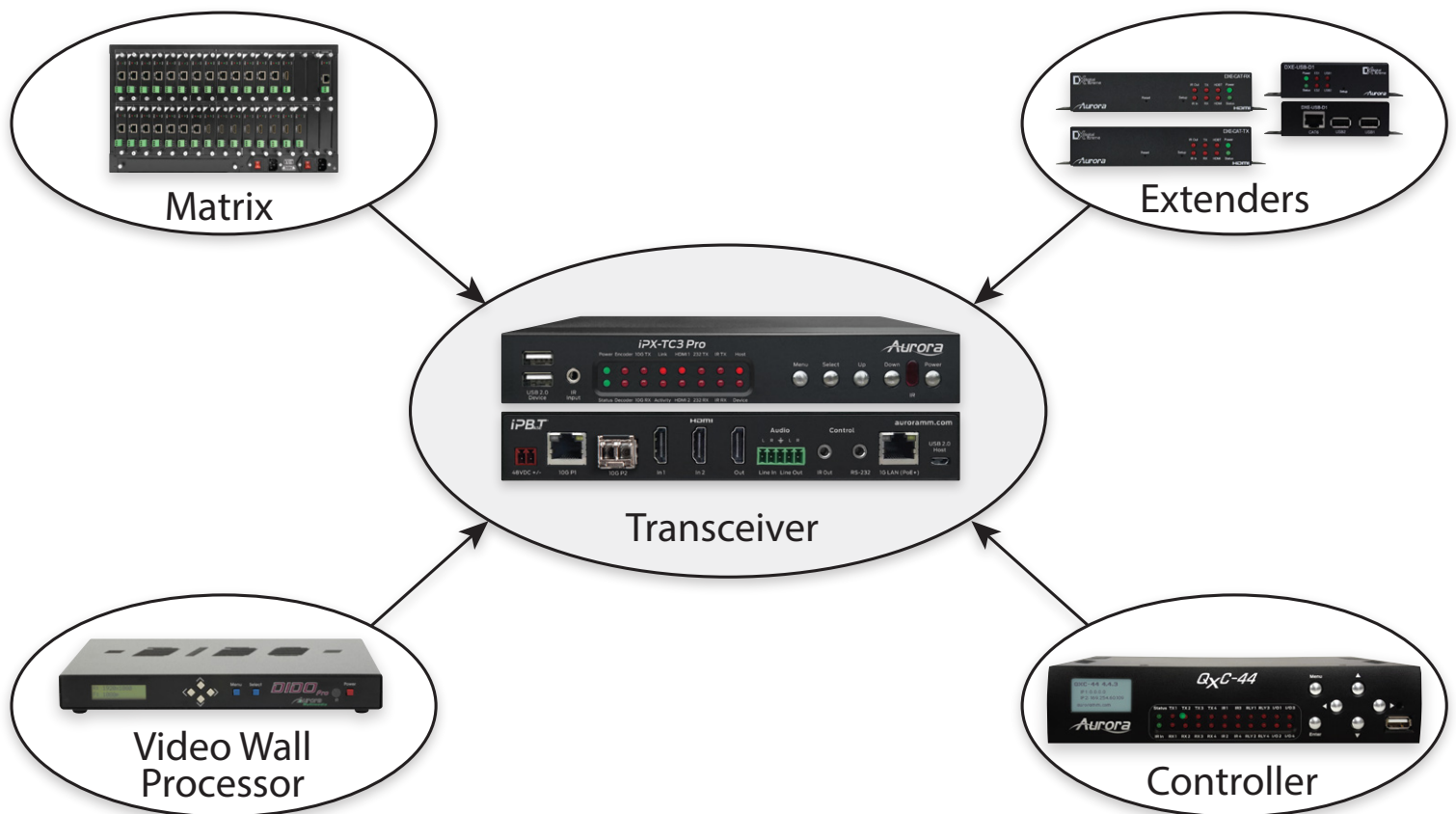
VLX-TC1



What is IPBaseT®?

Aurora's IPBaseT® combines a variety of 4K IP technologies and features under one unified protocol using a simplified topology. Uncompressed video with zero-latency, visually lossless video with low latency, seamless switching, video wall and multiviewer modes, digital audio, USB 2.0, Ethernet, and control are just some of the core capabilities of IPBaseT®. Utilizing the bandwidth of a standard 1Gbps copper (VLX Series) or 10Gbps copper or fiber (IPX Series), IPBaseT® supports large scalable audio/video matrixing, and it does so while replacing multiple technologies and products with a "single-box" distributed platform. The days of needing a separate AV switcher, control system, Video Wall processor, audio/DSP converter, and more are a thing of the past!

iPBT_{ASE}®



Transceiver?

The IPX/VLX transceiver is a single unit that can be configured as a transmitter or a receiver. Modes can be changed on the fly allowing for dynamic configurations. **INDUSTRY FIRST!**

AV System and IPBaseT® Comparison Charts

	Matrix system	IP streaming system	VLX system	IPX system
4K UHD with zero compression and zero latency	Yes	No	Visually Lossless Low Latency	Yes
Transceiver topology for simplified inventory	No	No	Yes	Yes
Standard network switch infrastructure for easy scalability	No	Yes	Yes	Yes
Transceiver wall plate	No	No	Yes	Yes, World's Only!
Videowall processing	No	Yes	Yes	Yes
USB port to use as host or device	No	No	Yes	Yes
Full-bandwidth Ethernet pass-through for data	No	No	Yes, 100Mbps	Yes, 1Gbps
Easy field serviceability	No	No	Yes	Yes
Integrated 2-input to 1-output HDMI® switch	No	No	Yes	Yes
Seamless switching	Premium Cost	Premium Cost	Fast Switch	Yes
Configure any IPX/VLX as TX or RX on the fly	No	No	Yes	Yes
ExtremeUSB® (USB 2.0 480Mbps) option	No	No	Integrated USB 2.0 (not ExtremeUSB®)	Yes
Dante™ network audio option	No	No	Yes	Yes

	VLX-TC1	VLX-TCW2	IPX-TC3	IPX-TC3-WP	IPX-TC3 Pro
Network Speed	1Gbps	1Gbps	10Gbps	10Gbps	10Gbps
Resolution	4K 4:4:4 30Hz/ 4K 4:2:0 60Hz	4K 4:4:4 30Hz/ 4K 4:2:0 60Hz	4K 4:4:4 60Hz	4K 4:4:4 60Hz	4K 4:4:4 60Hz
Compression	8:1	8:1	Zero @ 4K30Hz 1.3:1 @ 4K60Hz	Zero @ 4K30Hz 1.3:1 @ 4K60Hz	Zero @ 4K30Hz 1.3:1 @ 4K60Hz
Frame Latency	25ms	25ms	0.1ms	0.1ms	0.1ms without Scaling 3ms with Scaling
HDR	Yes	Yes	Yes	Yes	Yes
Scaling	1080p to 4K, 4K to 1080p	1080p to 4K, 4K to 1080p	No	No	Yes
EDID Management	Yes	Yes	Yes	Yes	Yes
Videowall	8x8	8x8	No	No	8x8
Windowing/Multiviewer	No	No	No	No	Up to 32
Seamless Switching	Fast Switch	Fast Switch	Between same Resolution	Between same Resolution	Between any Resolution
Fiber	Yes	No	Yes	Yes	Yes
Copper	Yes	Yes	Yes	Yes	Yes
USB	USB 2.0	USB 2.0	ExtremeUSB® 2.0 Option	ExtremeUSB® 2.0 Option	ExtremeUSB® 2.0 Option
Dante™ Option	2-Channel	2-Channel	2 & 8-Channel	2 & 8-Channel	2 & 8-Channel
Audio DSP	No	No	Yes	Yes	Yes
ReAX™ IP Control Option	Yes	Yes	Yes	Yes	Yes
Enclosure Style	Box	2 Gang	Box	3 Gang	Box
Auto Sense Switching	Yes	Yes	Yes	Yes	Yes
Breakaway Switching	Control & Dante™	Control & Dante™	Audio, USB, Control, & Dante™	Audio, USB, Control, & Dante™	Audio, USB, Control, & Dante™
Secure Content Encryption	Yes	Yes	Yes	Yes	Yes



Residential Systems **TWICE** 2016
BEST SHOW

scn
INSTALLATION
PRODUCTS
AWARD
Presented by
infocomm
2017

Commercial
INTEGRATOR
2016 BEST

TECH&LEARNING **WINNER**
BEST SHOW
InfoComm 2016

VLX-TCW2H-C & VLX-TCW2V-C

The VLX-TCW2 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 lossless compression. The VLX-TCW2 is available in 2 models, VGA/HDMI® (VLX-TCW2V) and 2 HDMI® (VLX-TCW2H). Using a transmitter (encoder) and receiver (decoder), respectively, used to be the standard – until now. The VLX-TCW2 Series can be set up as either one to make installation, inventory, and troubleshooting easier.

- 4K visually lossless over 1Gbps network
- Low 1.5 frame latency
- HDMI® 2.0/HDCP 2.2
- Unlimited scalability (based on network topology)
- Video wall with image rotation
- Online streaming video preview
- Cloning
- Channel mapping
- PoE (power over ethernet)
- Stereo line I/O
- RS-232 & IR control ports
- Auto sense switching
- Break-away switching
- USB 2.0 host & device ports
- Dante™ IP audio option
- ReAX™ IP control option
- Secure content encryption

Accessories:

Control

- RXS-1 — ReAX™ Server
- IPBaseT® Manager

Option Cards

- IPE-DTE-1 — Dante™ option
- IPE-REAX-1 — ReAX™ IP Control

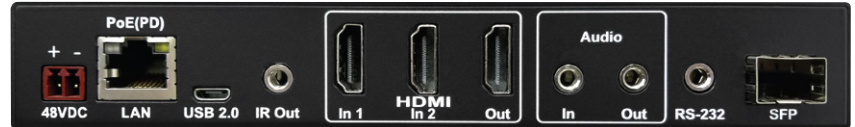
Power Supplies

- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply

Cables

- CA-HDMI

NEW



VLX-TC1-CF

The VLX-TC1-CF 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 lossless compression. Using a transmitter (encoder) and receiver (decoder), respectively, used to be the standard – until now. The VLX-TC1-CF Series can be set up as either one to make installation, inventory, and troubleshooting easier.

- 4K visually lossless over 1Gbps network
- Low 1.5 frame latency
- SFP fiber or secondary RJ-45
- HDMI® 2.0/HDCP 2.2
- Unlimited scalability (based on network topology)
- Video wall with image rotation
- Online streaming video preview
- Cloning
- Channel mapping
- PoE (power over ethernet)
- Stereo line I/O
- RS-232 & IR control ports
- Auto sense switching
- Break-away switching
- USB 2.0 host & device ports
- Dante™ IP audio option
- ReAX™ IP control option
- Secure content encryption

Accessories:

SFP Modules

- IPX-SFP-RJ45-1 — 1G RJ-45 LAN
- IPX-SFP-1GMM-1 — 1G Multi-mode Fiber
- IPX-SFP-1G20 — 1G Single-mode Duplex Fiber

Control

- RXS-1 — ReAX™ Server
- IPBaseT® Manager

Option Cards

- IPE-DTE-1 — Dante™ option
- IPE-REAX-1 — ReAX™ IP Control

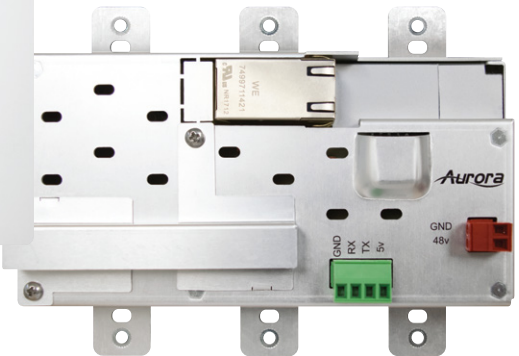
Mounting Options

- VLX-TC1-RK1 — 1RU Dual Rack Mount Kit
- VLX-TC1-RK5 — 5RU Rack Mount Kit (Holds 12 Units)

Power Supplies

- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply

NEW



IPX-TC3-WP-C & IPX-TC3-WP-F

IPX-TC3-WP 4K2K IP AV distribution wall plate built on Aurora's IPBaseT™ technology – which synergizes various IP and AV technologies to work together as one – the three-gang in-wall transceiver is the industry's first 4K2K IP wall plate to feature zero compression and zero latency. To simplify AV room combining in business centers, hospitality settings, and medical and government facilities, the IPX-TC3-WP can be set up as either a transmitter (input) or a receiver (output). When configured as a transmitter, the auto-detectable HDMI® inputs allow for two sources to be selected from a single wall plate over the network, and the HDMI® output becomes a local loop-through for the selected source. When configured as a receiver, the IPX-TC3-WP serves as an output HDMI® plate installed behind a display for easy wiring, and its two HDMI® inputs become local source inputs for in-room viewing. The wall plate features built-in source switching for seamless operation; analog and digital audio de-embedding with flexible audio breakaway switching; as well as RS-232, IR and Ethernet Control at any transceiver location.

- 4K 60Hz 4:4:4 lossless compression & zero frame latency
- HDR (high dynamic range)
- 4K 30Hz 4:4:4 & below – zero compression & zero frame latency
- Available for 10Gbps fiber MMF/SMF or 10Gbps copper networks
- Unlimited scalability (based on network topology)
- Seamless & breakaway switching (between same resolution)
- Stereo line I/O
- RS-232 & IR control ports
- Integrated web server
- Dante™ IP audio option
- ExtremeUSB® (USB 2.0 480Mbps) option

- ReAX™ IP control option
- Secure content encryption

Accessories:

Control

- RXS-1 — ReAX™ Server
- IPBaseT® Manager

Option Cards

- IPE-DTE-1 — Dante™ 2-channel
- IPE-DTE-2 — Dante™ 8-channel
- IPE-USB-2 — USB 2.0 ExtremeUSB®
- IPE-USB-2VH — Extreme USB® Virtual Hub
- IPE-REAX-1 — ReAX™ IP Control



NEW



IPX-TC3-C & IPX-TC3-F

The IPX-TC3 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 4K2K transceiver with zero compression and latency based on BlueRiver NT™+ platform. Using a transmitter (encoder) and receiver (decoder), respectively, used to be the standard – until now. The IPX-TC3 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 ExtremeUSB® (USB 2.0 over IP), ReAX™ IP control option or Dante™ audio, for a more complete, distributed system.

- 4K 60Hz 4:4:4 lossless compression & zero frame latency
- HDR (high dynamic range)
- 4K 30Hz 4:4:4 & below – zero compression & zero frame latency
- Available for 10Gbps fiber MMF/SMF or 10Gbps copper networks
- Seamless & breakaway switching (between same resolution)
- Stereo line I/O
- RS-232 & IR control ports
- Dante™ IP audio option
- ExtremeUSB® (USB 2.0 480Mbps) option
- ReAX™ IP control option
- Dual OSD (on screen display) engine
- Secure content encryption

Accessories:

Control

- RXS-1 — ReAX™ Server
- IPBaseT® Manager

Option Cards

- IPE-DTE-1 — Dante™ 2-channel
- IPE-DTE-2 — Dante™ 8-channel
- IPE-USB-2 — USB 2.0 ExtremeUSB®
- IPE-USB-2VH — Extreme USB® Virtual Hub
- IPE-REAX-1 — ReAX™ IP Control

Mounting Options

- IPX-RK3-1-K — 1RU Dual Rack Mount Kit
- IPX-RK3-5-K — 5RU Rack Mount Kit (Holds 12 Units)

Power Supplies

- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply

NEW



IPX-TC3-C Pro, IPX-TC3-CF Pro & IPX-TC3-DF Pro

The IPX-TC3 Pro 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 4K2K transceiver with zero compression and latency based on BlueRiver NT[™]+ platform. Using a transmitter (encoder) and receiver (decoder), respectively, used to be the standard – until now. The IPX-TC3 Pro 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 ExtremeUSB[®] (USB 2.0 over IP), ReAX[™] IP control option or Dante[™] audio, for a more complete, distributed system.

- 4K 60Hz 4:4:4 lossless compression & zero frame latency
- HDR (high dynamic range)
- 4K 30Hz 4:4:4 & below – zero compression & zero frame latency
- Available for 10Gbps fiber MMF/SMF or 10Gbps copper networks
- Windowing/multiviewer, supports up to 32
- 4K scaling with only 3ms latency
- Seamless & breakaway switching (any resolution to any resolution)
- Video wall processing up to 8x8
- Stereo line I/O
- RS-232 & IR control ports
- Dante[™] IP audio option
- ExtremeUSB[®] (USB 2.0 480Mbps) option
- ReAX[™] IP control option
- Dual OSD (on screen display) engine
- Secure content encryption

Accessories:

Control

- RXS-1 — ReAX[™] Server
- IPBaseT[®] Manager

Option Cards

- IPE-DTE-1 — Dante[™] 2-channel
- IPE-DTE-2 — Dante[™] 8-channel
- IPE-USB-2 — USB 2.0 ExtremeUSB[®]
- IPE-USB-2VH — Extreme USB[®] Virtual Hub
- IPE-REAX-1 — ReAX[™] IP Control

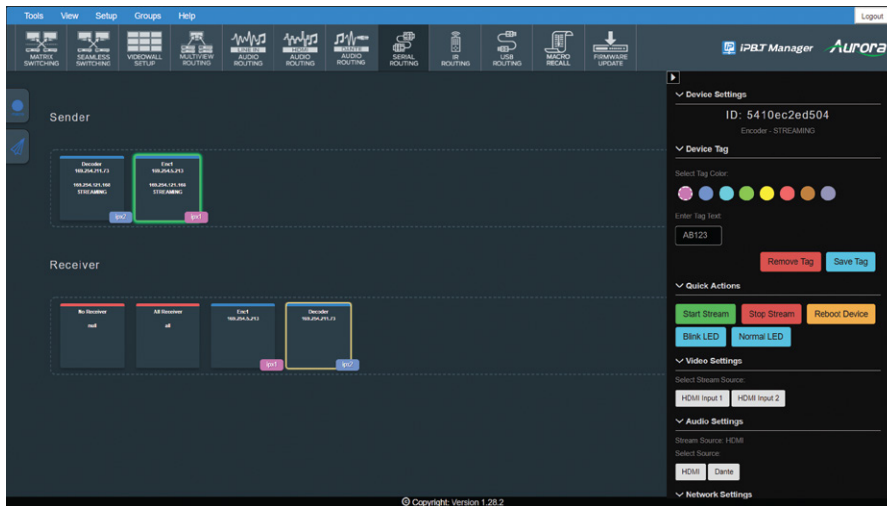
Mounting Options

- IPX-RK3-1-K — 1RU Dual Rack Mount Kit
- IPX-RK3-5-K — 5RU Rack Mount Kit (Holds 12 Units)

Power Supplies

- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply

NEW



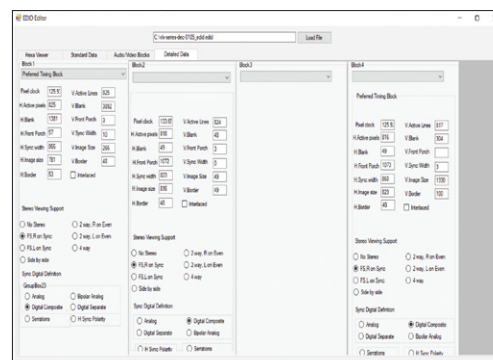
IPBaseT® Manager & IPBaseT® Manager Pro

Aurora's IPBaseT® Manager software is an all in one control application for the IPX and VLX series of IPBaseT® AV over IP products. This intuitive software not only allows for simple drag-and-drop signal routing, but also includes powerful utilities for configuring and managing your IPBaseT® system.

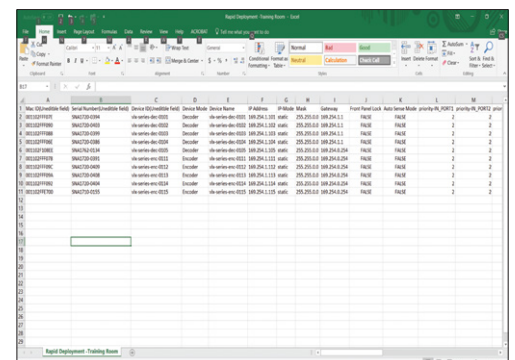
IPBaseT® Manager is available for download via our customer portal, <http://portal.auroramultimedia.com>

- Mobile friendly
- Device auto-discovery
- Matrix routing
- Live preview routing
- Seamless switching (IPX Series only)
- Multiview configuration & routing (IPX Series only)
- Video wall setup
- Break-away line & HDMI® audio routing (IPX Series only)
- Break-away serial routing
- Break-away IR & USB routing (IPX Series only)
- Macro recall (IPX Series only)
- Batch firmware update
- Serial & IR send/receive terminal (VLX Series only)
- Comprehensive EDID editor
- Rapid deployment tool

EDID Editor



Rapid Deployment Tool



IPE-DTE-1

- Dante™ 2-Channel Option Card for IPX-TC3, IPX-TC3-WP, VLX Series, HT Series



IPE-DTE-2

- Dante™ 8-Channel Option Card for IPX-TC3, IPX-TC3-WP, HT Series



IPE-USB-2

- ExtremeUSB® Option Card for IPX-TC3, IPX-TC3-WP



IPE-USB-2VH

- ExtremeUSB® Virtual Hub Option Card for IPX-TC3, IPX-TC3-WP



IPE-REAX-1

- ReAX™ IP Control Option Card for IPX-TC3, IPX-TC3-WP, VLX Series, HT Series



DXB-8i

- 8 Button Controller (Customizable Wall Plate)



IPX-FSW-8

- 8 port SFP+ Switch



IPX-FSW-12

- 12 port SFP+ Switch



IPX-FSW-24

- 24 port SFP+ Switch



IPX-SFP-RJ45-1

- 1G RJ-45 LAN SFP Module



IPX-SFP-1GMM-1

- 1G Multi-mode Fiber SFP Module



IPX-SFP-1G20

- 1G Single-mode Duplex Fiber SFP Module



IPX-SFP-10GMM-1

- 10Gbps SFP+ Multi-mode LC 50/125 Module



IPX-SFP-10G32C1

- 10Gbps SFP+ BIDI Single Mode 1330/1270nm Module 10KM



IPX-SFP-10G23C1

- 10Gbps SFP+ BIDI Single Mode 1270/1330nm Module 10KM



IPX-SFP-10G20

- 10Gbps SFP+ Single Mode Dual Module 1310nm 20KM



IPX-SFP-OM3DXLC-1

- OM3 Fiber 50/125 Multi-mode LC Patch Cable 1M (3ft)



IPX-SFP-PPC-1

- SFP+ 10Gbps Passive Patch Cable 1M (3ft)



FI-GIG-GIDY-xx

- Dual OM3 Multi-Mode Terminated Fiber with LC Connectors + 18/2 Power Cable
- Available through West Penn Wire



CA-HDMI

- HDMI® 2.0a Cable, Resolutions up to 4K 60Hz 4:4:4, 18Gbps



IPX-RK3-1-K

- IPX-TC3
1RU Dual Rack
Mount Kit



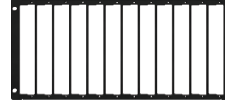
VLX-TC1-RK1

- VLX-TC1
1RU Dual Rack
Mount Kit



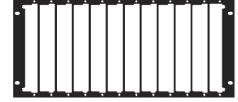
IPX-RK3-5-K

- IPX-TC3
5RU Rack Mount Kit
(Holds 12 Units)



VLX-TC1-RK5

- VLX-TC1
5RU Rack Mount Kit
(Holds 12 Units)



IPX-RK3-BK-K

- IPX-TC3
Blank Plate for
Rack Mounts



VLX-TC1-BLK

- VLX-TC1
Blank Plate for
Rack Mounts



IPX-RK3-MT-K

- For IPX-TC3
use in Rack Mounts



VLX-TC1-RAIL

- For VLX-TC1
use in Rack Mounts



IPX-LCVR

- IPX-TC3-WP, VLX-TCW2,
HTW-2 Wall Plate
LAN Port Cover



CA0052-F2T3R

- RS-232 Adapter (3.5mm
TRS to FEMALE DB9 2-TX 3-RX)



CA0052-F3T2R

- RS-232 Adapter (3.5mm
TRS to FEMALE DB9 3-TX 2-RX)



CA0052-M2T3R

- RS-232 Adapter (3.5mm
TRS to MALE DB9 2-TX 3-RX)



CA0052-M3T2R

- RS-232 Adapter (3.5mm
TRS to MALE DB9 3-TX 2-RX)



CA0061-1

- IR Emitter



CA0062-1

- IR Receiver



LVR-2G

- 2 Gang Electrical Ring



LVR-3G

- 3 Gang Electrical Ring



PS0081-1

- 48V 24 Watt PoE Injector
- Available in -US, -AU, -EU,
& -UK worldwide models



PS0094-2

- 48V 25 Watt Wall Supply
- Available in -US, -AU, -EU,
& -UK worldwide models



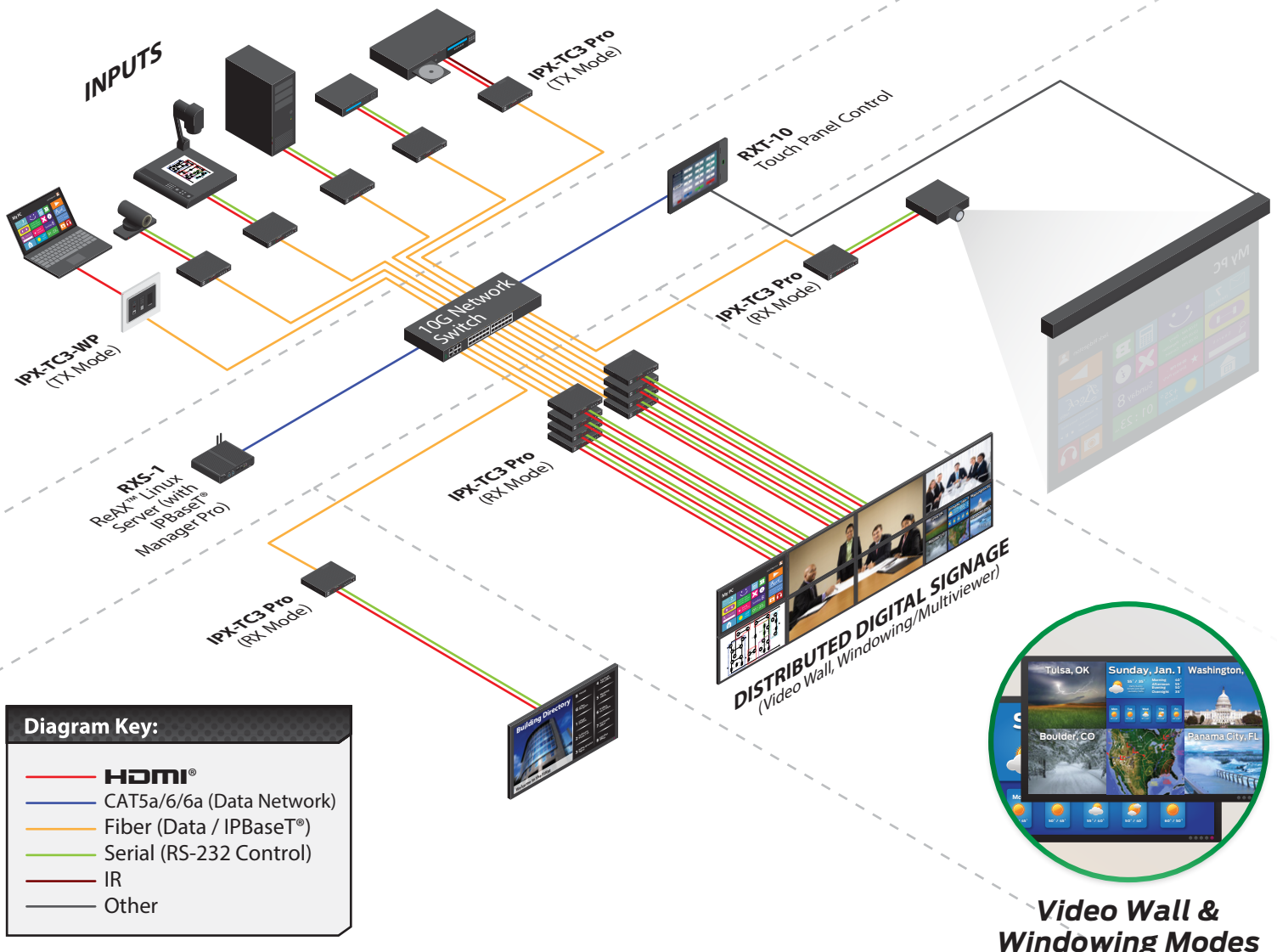
PS0096-1-US

- 5V 25 Watt Desktop Style
Power Supply



Any input to any or all displays over a standard IP network.

Mix and match Transceivers – Any Transceiver can be configured as an input (TX) or output (RX).



IPBT_{ASE} CERTIFIED PRODUCT PARTNER

WEST PENN WIRE

IPBT_{ASE} STRATEGIC PARTNER

AptoVision
Redefining AV Signal Processing

Audinate

HUAWEI

icron

NETGEAR

pakedge

SDVoE Alliance
Software Defined Video over Ethernet