Aurora

iPBaseT® AV EVOLUTION

4K AV Distribution over IP
Industry's First Transceivers

The Award-Winning IPX and VLX Series with IPBaseT® Technology

WINNER scn INSTALLATION PRODUCTS AWARD Presented at infocomm 2017

BEST of ISE 2016 Presented at ISE 2016 AWARDS

Residential Systems TWICE 2016 BEST of SHOW

TECH & LEARNING WINNER BEST of SHOW InfoComm 2016

2016 INNOVATIVE PRODUCTS Selected by the readers of SOUND & VIDEO CONTRACTOR

Commercial INTEGRATOR 2016 BEST

SOUND & VIDEO CONTRACTOR WINNER BEST of SHOW InfoComm 2015

BEST of Integrated Systems Europe AWARDS

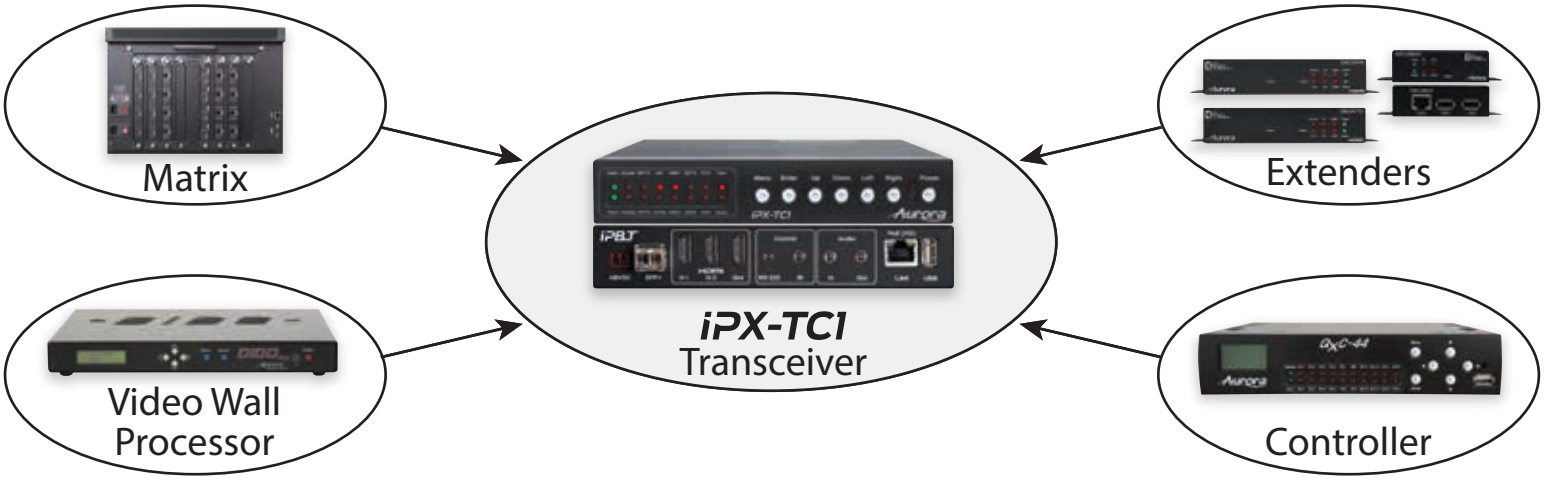
Patent Pending

MADE IN THE USA BUILT FOR THE WORLD

www.auroramm.com

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, videowall 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, videowall processor, audio/DSP converter, and more are a thing of the past!



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!

The Award-Winning IPX Series and VLX Series with IPBaseT® Technology

iPX-TCW3

iPX-TC1

VLX-TCW2

iPX-TC2

VLX-TC1

A/V System Comparison Chart

	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 Gigabit Ethernet pass-through for data	No	No	No	Yes
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 Series Transceivers

- 4K Visually Lossless over 1Gbps Network
- Low 1.5 Frame Latency
- HDMI® 2.0/HDCP 2.2
- Unlimited Scalability (Based on Network Topology)
- Videowall with Image Rotation
- Online Streaming Video Preview
- Cloning
- Channel Mapping
- PoE (Power over Ethernet)
- Stereo Line In/Out
- RS-232 & IR Control Ports
- Auto Sense Switching
- Break-away Switching
- USB 2.0 Host & Device Ports
- Dante™ IP Audio Option
- Secure Content Encryption

VLX-TCW2V-C

VLX-TCW2H-C

VLX-TC1-C

VLX Distribution System – Any input to any or all displays over a standard IP network

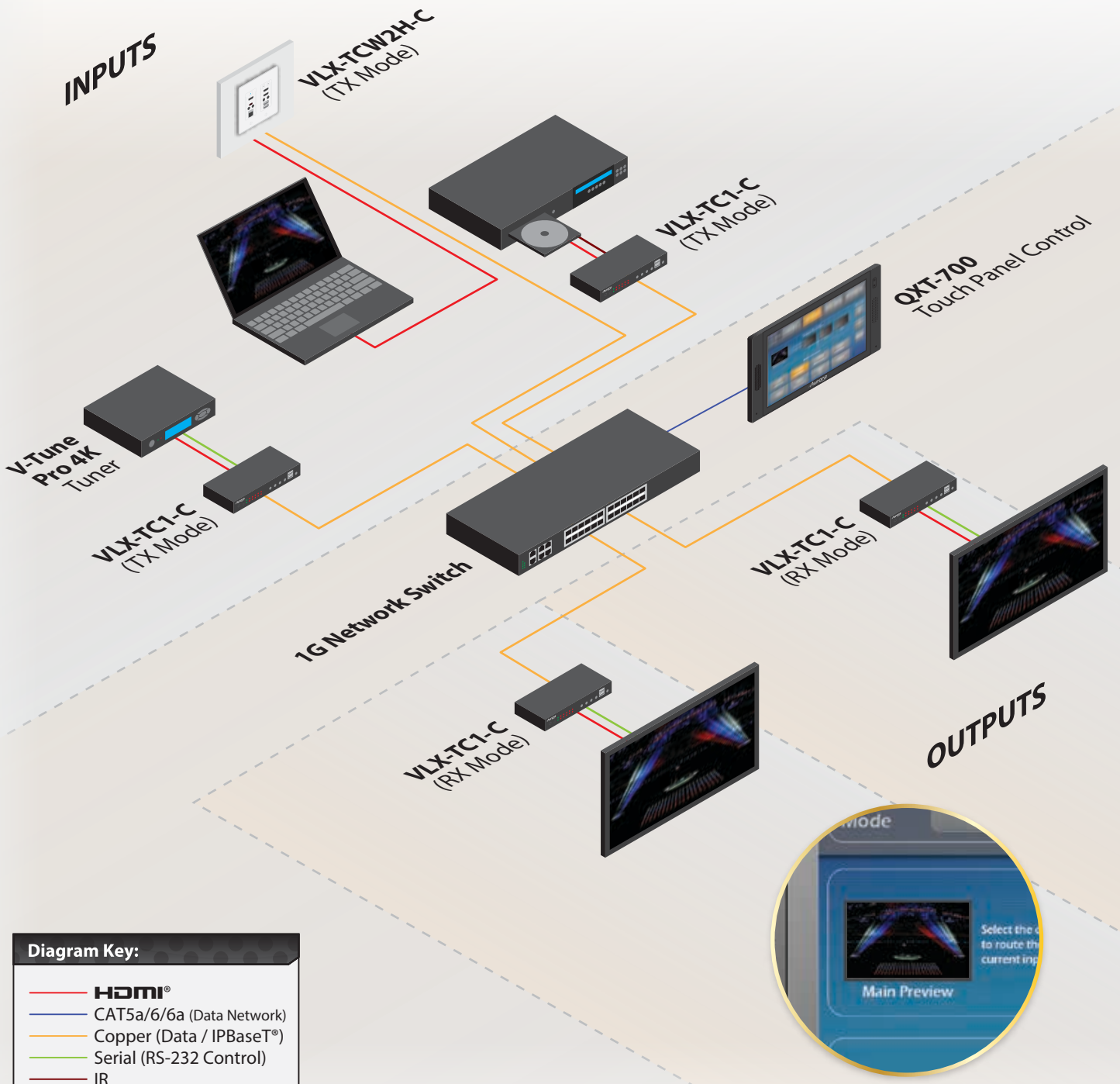


Diagram Key:

- HDMI®
- CAT5a/6/6a (Data Network)
- Copper (Data / IPBaseT®)
- Serial (RS-232 Control)
- IR

Online Streaming Video Preview

Mix and match transceivers *- Any transceiver can be configured as an input (TX) or output (RX)*

IPX-TC1/TCW3 Series Transceivers

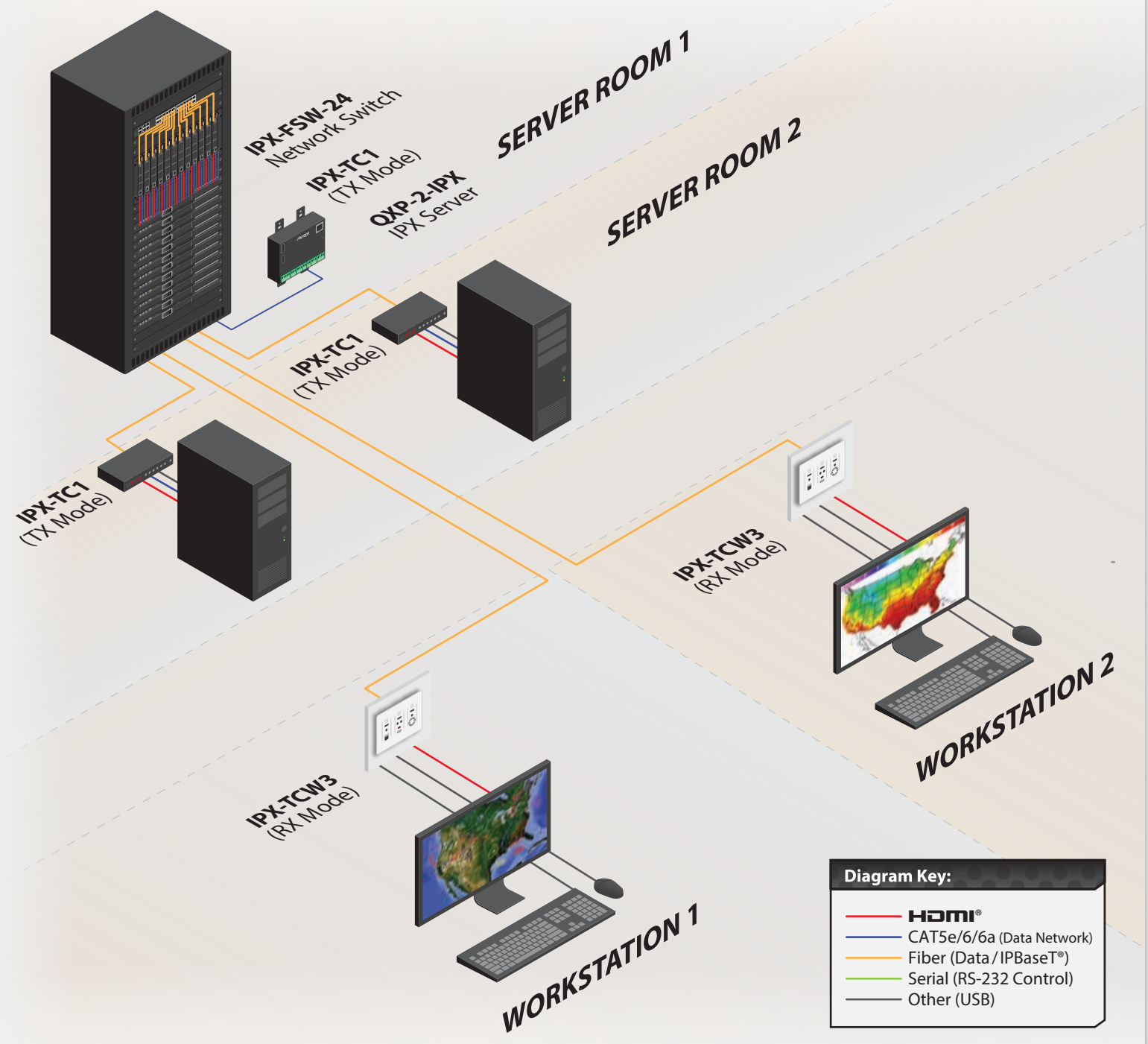
- 4K with Zero Compression & Zero Latency
- Available for 10Gbps Fiber MMF/SMF or 10Gbps Copper Networks
- Unlimited Scalability (Based on Network Topology)
- Seamless & Breakaway Switching
- Videowall Capabilities
- Stereo Line In/Out
- RS-232 & IR Control Ports
- Integrated Web Server
- Dante™ IP Audio Option
- ExtremeUSB® (USB 2.0 480Mbps) Option
- Secure Content Encryption

iPX-TCW3

iPX-TC1-F

iPX-TC1-C

IPX-TC1 KVM System – 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)*

IPX-TC2 Series Transceivers

4K 60Hz 4:4:4 HDR Lossless Compression & Zero Frame Latency

ZERO FRAME LATENCY SCALING

4K 30Hz 4:4:4 and Below – Zero Compression & Zero Frame Latency

Available for 10Gbps Fiber MMF/SMF or 10Gbps Copper Networks

iPX-TC2-F

Windowing/Multiviewer, Supports up to 32

4K Scaling with only 3ms Latency

Seamless & Breakaway Switching (Any Resolution to Any Resolution)

iPX-TC2-C

Videowall Processing up to 16x16

Stereo LIne In/Out

RS-232 & IR Control Ports

Dante™ IP Audio Option

ExtremeUSB® (USB 2.0 480Mbps) Option

Secure Content Encryption

Windowing/Multiviewer

IPX-TC2 Videowall System – Any input to any or all displays over a standard IP network

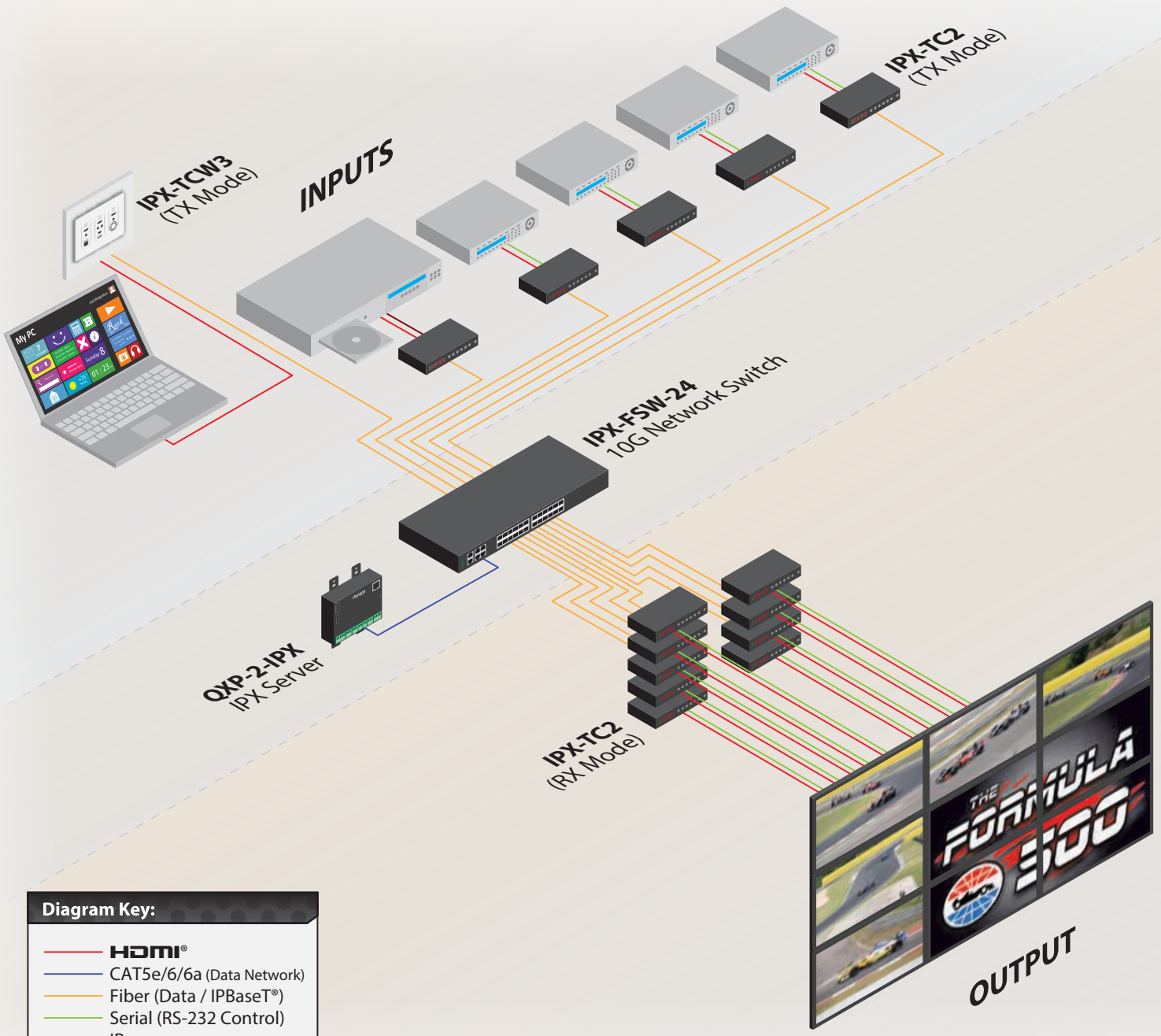


Diagram Key:

- HDMI®
- CAT5e/6/6a (Data Network)
- Fiber (Data / IPBaseT®)
- Serial (RS-232 Control)
- IR

Mix and match transceivers *- Any transceiver can be configured as an input (TX) or output (RX)*

Optional Accessories

QXP-2-IPX
IPX Embedded Linux®
Server Version

IPX-USB2
IPX Series USB 2.0 ExtremeUSB®
Option Card

IPX-DTE-1
IPX-TC1 and IPX-TCW3 Dante™
Option Card

IPX-DTE-2
IPX-TC2 Series Dante™
Option Card

IPE-DTE-1
VLX Series Dante™
Option Card

IPX-FSW-8
8 port SFP+ Switch

IPX-FSW-12
12 port SFP+ Switch

IPX-FSW-24
24 port SFP+ Switch

DXB-8
8 Button Wall Plate
(Customizable)

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

iPBT® BASE CERTIFIED PRODUCT PARTNER

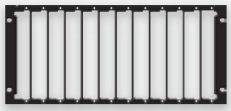
CA-HDMI
HDMI® 2.0a Cable
Resolutions up to 4K 60Hz 4:4:4, 18Gbps
Available in a variety of colors and lengths

IPX-TC1-RK1
1RU Dual Rack Mount Kit

VLX-TC1-RK1
1RU Dual Rack Mount Kit

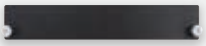
IPX-TC1-RK5
5RU Rack Mount Kit (Holds 12 Units)

VLX-TC1-RK5
5RU Rack Mount Kit (Holds 12 Units)



IPX-TC1-BLK
Blank Plate for Rack Mounts

VLX-TC1-BLK
Blank Plate for Rack Mounts



IPX-TC1-RAIL
For IPX-TC1 use in Rack Mounts

VLX-TC1-RAIL
For VLX-TC1 use in Rack Mounts

VLX-LCVR
VLX 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, and -UK worldwide models

PS0094-2
48V 25 Watt Wall Supply
Available in -US, -AU, -EU, and -UK worldwide models

PS0096-1-US
5V 25 Watt Desktop Style Power Supply

iPBaseT® AV EVOLUTION

The Ultimate Solution for 4K AV Distribution Over IP

IPBaseT® Family Comparison Chart

	VLX-TC1-C	VLX-TCW2	iPX-TC1	iPX-TCW3	iPX-TC2
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 30Hz/ 4K 4:2:0 60Hz	4K 4:4:4 30Hz	4K 4:4:4 60Hz
Compression	8:1	8:1	Zero	Zero	Zero @ 4K30Hz 1.3:1 @ 4K60Hz
Frame Latency	1.5	1.5	Zero	Zero	Zero
HDR	No	No	No	No	Yes
Scaling	1080p to 4K, 4K to1080p	1080p to 4K, 4K to1080p	No	No	Yes, 3ms Scaling for Zero Frame
EDID Management	Yes	Yes	Yes	Yes	Yes
Videowall	8x8	8x8	4x4	4x4	16x16
Windowing/Multiviewer	No	No	No	No	Up to 32
Seamless Switching	Fast Switch	Fast Switch	Yes, between same resolution	Yes, between same resolution	Yes, between any resolution
Fiber	No	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	Yes	Yes	Yes	Yes	Yes
Enclosure Style	Box	2 Gang	Box	3 Gang	Box
Auto Sense Switching	Yes	Yes	Yes	Yes	Yes
Breakaway Switching	Audio, USB, Control, & Dante™	Audio, USB, Control, & Dante™	Audio, USB, Control, & Dante™	Audio, USB, Control, & Dante™	Audio, USB, Control, & Dante™
Secure Content Encryption	Yes	Yes	Yes	Yes	Yes

iPBaseT® CERTIFIED PRODUCT PARTNER

iPBaseT® STRATEGIC PARTNER

AptoVision Redefining AV Signal Processing

Audinate

HUAWEI

WEST PENN WIRE

icron

NETGEAR®

pakedge®

SDVoE™ Alliance Software Defined Video over Ethernet

Aurora

Aurora Multimedia Corp. | Morganville, NJ, USA | sales@auroramm.com