2020 PRODUCT CATALOG

Changing the Topology of AV

www.auroramm.com
About Us

- Aurora Multimedia Corp. – founded in 1998
- Headquartered in Morganville, NJ, USA
- Products designed & manufactured in-house
- Utilizing innovative technology versus copying
- In-house manufacturing ensures quality workmanship
- Highly reliable products built to commercial standards
- Design cycle revolves around end-user demands
- Products and services only sold through authorized dealers
- Certifications & training available

Changing the Topology of AV

- Real-time image rotation
- Multi-image rotation
- Open card slot products for plasma displays
- Web standards control systems
- Transceiver technology for AV over IP & HDBaseT™
- Dante™/AES67 with video
- 10G power over ethernet (PoE)
- Directional USB
- Directional PoE/PoH & more to come!
## AV over IP with IPBaseT® & SDVoE™

Overview: What is IPBaseT®? ...................................1  
Features......................................................................2  
VLX-TCW2..............................................................3  
VLX-TC1-CF............................................................4  
IPX-TC3-WP2 & IPX-TC3-WP3.................................5  
IPX-TC3 & IPX-TC3 Pro.............................................6  
IP-24PoE+...................................................................7  
IPBaseT® Manager....................................................8  
Simplify......................................................................9  
Applications: AV over IP with SDVoE™.............10

## Control Solutions

Overview: What is ReAX™?....................................11  
ReAX™ Core Studio Software ..............................12  
RXT-7 & RXT-10.....................................................13  
RXT-7D & RXT-10D................................................14  
RXS-1.......................................................................15  
RXC-1 & RXC-3........................................................16  
RXC-4.......................................................................17  
LXC-1.......................................................................18  
DXB-8 & DXB-8i......................................................19

## TeamStream™ Wireless Huddle Room Solution

TS-100......................................................................20

## HDBaseT™ 2.0 Transmitter & Receiver

HTW-2......................................................................21  
HITE-TX2 & HTE-RX2..............................................22

## HDBaseT™ Transmitters & Receivers

DXW-2-4K....................................................................23  
DXE-CAT-S1-4K/S2-4K...........................................24  
DXE-CAT-RX3-4K....................................................25

## One Room - One Cable™ Kits

ORC-1, ORC-1C, ORC-3 & ORC-3C.......................28

## HDMI® Splitters

DXE-122A-DS & DXE-142A-DS................................27  
DXE-218....................................................................28

## HDMI® Converters & Cables

MCX-VTH, MCX-STH, MCX-HTS, & CA-HDMI...29

## HDMI® Presentation Scaler/Switcher

DXP-62......................................................................30

## Matrixes

ASP-442A & ASP-882A............................................31  
DXM-1616-G4 & DXM-884-G4.............................32

## Audio Amplifier

DTX-AMP1..................................................................33

## Speakers

SKR-22T & SKR-22T-XFR.........................................34

## Related Products & Accessories

.............................................................................35-36
**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!

---

**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

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

### Network Speed

<table>
<thead>
<tr>
<th>Network Speed</th>
<th>VLX-TC1</th>
<th>VLX-TCW2</th>
<th>IPX-TC3</th>
<th>IPX-TC3-WP2</th>
<th>IPX-TC3-WP3</th>
<th>IPX-TC3 Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Speed</td>
<td>1Gbps</td>
<td>1Gbps</td>
<td>10Gbps</td>
<td>10Gbps</td>
<td>10Gbps</td>
<td>10Gbps</td>
</tr>
<tr>
<td>Resolution</td>
<td>4K 4:4:4 30Hz/4K 4:2:0 60Hz</td>
<td>4K 4:4:4 30Hz/4K 4:2:0 60Hz</td>
<td>4K 4:4:4 60Hz</td>
<td>4K 4:4:4 60Hz</td>
<td>4K 4:4:4 60Hz</td>
<td>4K 4:4:4 60Hz</td>
</tr>
<tr>
<td>Compression</td>
<td>8:1</td>
<td>8:1</td>
<td>Zero @ 4K30Hz 1.3:1 @ 4K60Hz</td>
<td>Zero @ 4K30Hz 1.3:1 @ 4K60Hz</td>
<td>Zero @ 4K30Hz 1.3:1 @ 4K60Hz</td>
<td>Zero @ 4K30Hz 1.3:1 @ 4K60Hz</td>
</tr>
<tr>
<td>Frame Latency</td>
<td>25ms</td>
<td>25ms</td>
<td>0.1ms</td>
<td>0.1ms</td>
<td>0.1ms</td>
<td>0.1ms</td>
</tr>
<tr>
<td>HDR</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scaling</td>
<td>1080p to 4K, 4K to 1080p</td>
<td>1080p to 4K, 4K to 1080p</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>EDID Management</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Video wall</td>
<td>8x8</td>
<td>8x8</td>
<td>No</td>
<td>No</td>
<td>8x8</td>
<td>8x8</td>
</tr>
<tr>
<td>Windowing/Multiviewer</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Up to 32</td>
<td>Up to 32</td>
</tr>
<tr>
<td>Seamless Switching</td>
<td>Fast Switch</td>
<td>Fast Switch</td>
<td>Between same Resolution</td>
<td>Between same Resolution</td>
<td>Between any Resolution</td>
<td>Between any Resolution</td>
</tr>
<tr>
<td>Fiber</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>USB</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
<td>ExtremeUSB® 2.0 Option</td>
<td>ExtremeUSB® 2.0 Option</td>
<td>ExtremeUSB® 2.0 Option</td>
<td>ExtremeUSB® 2.0 Option</td>
</tr>
<tr>
<td>Dante™ Option</td>
<td>2-Channel</td>
<td>2-Channel</td>
<td>2 &amp; 8-Channel</td>
<td>2 &amp; 8-Channel</td>
<td>2 &amp; 8-Channel</td>
<td>2 &amp; 8-Channel</td>
</tr>
<tr>
<td>Audio DSP</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ReAX™ IP Control Option</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Enclosure Style</td>
<td>Box</td>
<td>2 Gang</td>
<td>Box</td>
<td>2 Gang</td>
<td>3 Gang</td>
<td>Box</td>
</tr>
<tr>
<td>Auto Sense Switching</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Breakaway Switching</td>
<td>Control &amp; Dante™</td>
<td>Control &amp; Dante™</td>
<td>Audio, USB, Control, &amp; Dante™</td>
<td>Audio, USB, Control, &amp; Dante™</td>
<td>Audio, USB, Control, &amp; Dante™</td>
<td>Audio, USB, Control, &amp; Dante™</td>
</tr>
<tr>
<td>Secure Content Encryption</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

- 2 -
VLX-TCW2 Series

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 two models, VLX-TCW2V (VGA/HDMI®) and VLX-TCW2H (two HDMI® inputs). 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**
- IP-24PoE+ — 24 Port PoE+/PoH+ Injector
- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply

**Cables**
- CA-HDMI
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
- RK2-1-K — 1RU Dual Rack Mount Kit
- RK2-5-K — 5RU Rack Mount Kit (Holds 12 Units)
- RK2-BP — Blank Plate for Rack Mounts
- RK2-RL — Blank Plate for Rack Mounts

Power Supplies
- IP-24PoE+ — 24 Port PoE+/PoH+ Injector
- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply
IPX-TC3-WP2-C, IPX-TC3-WP3-C & IPX-TC3-WP3-F
The IPX-TC3-WP Series 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 two and three gang in-wall transceiver are the industry’s first 4K2K IP wall plates 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 Series 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 Series 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 (IPX-TC3-WP3) & 10Gbps copper networks (IPX-TC3-WP2)
- Windowing/multiviewer, supports up to 32 (IPX-TC3-WP3)
- 4K scaling with only 3ms latency (IPX-TC3-WP3)
- Seamless switching (between any resolution)
- Breakaway switching (audio/USB/control/Dante™)
- Video wall processing up to 8x8 (IPX-TC3-WP3)
- 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
- 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

#### Power Supplies
- IP-24PoE+ — 24 Port PoE+/PoH+ Injector
- PS0081-1 — 48V 24 Watt PoE Injector
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
- Windowing/multiviewer, supports up to 32 (IPX-TC3 Pro)
- 4K scaling with only 3ms latency (IPX-TC3 Pro)
- Seamless switching (between any resolution)
- Breakaway switching (audio/USB/control/Dante™)
- Video wall processing up to 8x8 (IPX-TC3 Pro)
- 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
- 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**
- RK3-1-K — 1RU Dual Rack Mount Kit
- RK3-5-K — 5RU Rack Mount Kit (Holds 12 Units)
- RK3-BP — Blank Plate for Rack Mounts
- RK3-RL — Mounting Rails for Rack Mounts

**Power Supplies**
- IP-24PoE+ — 24 Port PoE+/PoH+ Injector
- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply
IP-24PoE+

The IP-24PoE+, is the first ever 24 port PoE+/PoH+ injector to deliver power on a 10G connection. It is compatible with any standard 1G or 10G network switch and will deliver up to 30 watts of power per port.

This allows for a clean installation of any 1G or 10G PD capable device, alleviating the need for local power supply. Aurora designed the IP-24PoE+ for its IPX Series SDVoE AV over IP product line as it currently is the only 10G AV over IP with PoE. The IP-24PoE+ can also supply power to HDBaseT™ PoH products providing remote powering as well.

In the case of an underpowered PoE network switch, the IP-24PoE+ will provide the additional power to the ports requiring or to simply add PoE+ to ports lacking.

Taking up only 1RU of rack space the IP-24PoE+ is the only 10G PoE+ solution for a clean installation.

SDVoE is a 10G AV over IP solution available in copper or fiber. Aurora’s IPX Series of 10G copper SDVoE solution is PoE+ capable making the IP-24PoE+ a perfect fit. Without the PoE on the 10G every drop point would require an external power supply making it more difficult to install in some locations as it would require an electrical outlet nearby. Depending on the switch brand and model required it may not have PoE available. The IP24PoE+ will quickly and easily add PoE+ to any brand switch including ones that only have enough power for half of the ports like the Netgear™ SDVoE compliant M4300-96X Series switch. While it is a very powerful, low cost switch, the power budget is only for 48 of the 96 ports. Using two IP-24PoE+ units will allow the distribution of PoE+ on the remaining 48 ports keeping the system free of any external power supplies.

- 24 RJ-45 ports
- 1G & 10G networks
- 30 Watts per port PoE+/PoH+
- LED PoE active indicators
- 750 watts total power
- IEEE 802.3af, IEEE 802.3at
- 1RU rack size
- Compatible with all network switch brands
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 & IPBaseT® Manager Pro

IPBaseT® Manager is available for download via our customer portal: https://portal.auroramultimedia.com/login.

- Mobile friendly
- Device auto-discovery
- Matrix routing
- Live preview routing (VLX Series only)
- 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
- Batch firmware update
- Serial & IR send/receive terminal
- Comprehensive EDID editor
- Rapid deployment tool
Submit Simplify configuration form:
- IP address, host names, encoder/decoder,
  baud rate, & Netgear® switch configuration

1. Submit Simplify configuration form:
2. Aurora will configure the VLX or IPX Series
   to the requirements & Netgear® switch if
   purchased through Aurora
3. Aurora ships entire solution labeled & ready for
   plug & play operation

- The Aurora products come with a 5 year warranty &
  Netgear® switches are limited lifetime
- Training available for the Simplify plug & play solution
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).
What is ReAX™?

ReAX™ is the industry’s first non-proprietary IP Control based on AV/IT industry standards. The name ReAX™ represents action/reaction which is the essence of control automation. ReAX™ is unique since it is not limited to a single manufacturer but to all who qualify. This is the first-time, interoperability of not just protocols and structure, but the actual code itself. It is not limited there as IR libraries, macros, and more can all be shared and organized in a single location at the organizations’ website www.reax.org.

ReAX™ server-side operations is based on JavaScript™. This language standard is taught in schools and commonly used on most websites. Client-side operations for touch panels and web interfaces can be HTML, JavaScript™, etc. To the end user, it will appear and operate as any other control system and much more. As a result, a variety of manufacturers can offer their flavor of ReAX™. This will open new product and choices that all work in harmony. For the first time, integrators will not have to rely on proprietary training courses and the required investment of time and money. Being part of ReAX™ will allow integrators and end users to have choices; what makes sense for their installation and to choose from of a variety of manufacturers.

ReAX™ is creating healthy competition that will lead to innovation and much faster progress of technology. Aurora’s RXC Series control system and RXT Series touch panel line up will support ReAX™ running in Linux® secured OS.

A new small ARM processor option board (IPE-REAX-1) has been created to add ReAX™ to Aurora’s VLX Series 1G AV over IP, IPX Series 10G AV over IP, and HT Series HDBaseT™ product lines. This compact powerful board (1.84” x .784”) will add full automation to HDBaseT™ and AV over IP eliminating the need for an external control processor. It can run as a single unit for the entire system, or multiple can be installed to segment or make the system redundant. The IPE-REAX-1 board will be made available for other manufacturers to utilize for faster deployment.

IPE-REAX-1 Option Board for AV over IP & HDBaseT™

- Works for IPX, VLX, & HT series
- Linux® OS running ReAX™ core
- 900MHz Cortex A7 ARM processor
- 512MB-1Gb DDR3L (model dependent)
- 32MB-256MB (model dependent)
- 10/100 ethernet
- RTC (rechargeable lithium battery)
- Encryption acceleration engine
ReAX™ Core Studio Software

A strong control core needs strong tools. Aurora’s ReAX™ Core Studio Software will allow drag and drop creation of interfaces and control code. Since the generated code is based on JavaScript™ it can be modified after generation. Currently in proprietary systems, if the tool has a bug, it cannot be resolved until the manufacturer issues a software update. With ReAX™ since it is JavaScript™, even if the code generator does something wrong, a user can correct the code in a simple text editor or add code to enhance features. Think of all the great things across the web that can now be quickly and easily done with ReAX™.

While Aurora created ReAX™, we want to share to make the AV/IT industry stronger, more flexible, and unified. We want to bring choices back to end users and integrators alike. In time, we hope ReAX™ will become part of everyone’s vision. Take back control with us and make a difference!

- Web page creator for ReAX™ controllers
- Generates HTML web pages
- Drag & drop style programming
- Runs on all standard web browsers
- Easily incorporates drop down menu, sliders, & radial buttons
- Control system event editor
- 2-Way feedback modules
- Drag & drop operations
- Works with iOS & Android™ devices
- Creates JavaScript™ event manager files
- Speeds development
The RXT-7 and RXT-10 are the World’s first ReAX™ JavaScript™ based Touch Panel Control Systems. Ideal for conference rooms, educational facilities, digital signage and more. Designed to flush mount magnetically into the RXT-BB7 or RXT-BB10 backbox, the units have beautiful touch screens (RXT-7 1024 x 600; RXT-10 1280 x 800) with 170-degree viewing and room status lighting. The 2D and 3D graphics engine with 1080p H.264 streaming decoder provides a powerful solution for complex graphics and video, ensuring an enhanced user experience. To further enhance the experience the RXT-7 has one 2-watt speaker (RXT-10 has stereo 2-watt speakers), digital microphone, and ambient light sensor. The RXT-7 and RXT-10 are powerful ‘all in one’ solutions for your presentation and automation needs. Core Studio tool is available free of charge for code and interface creation.

- 7” 1024x600 resolution (RXT-7) or 10” 1280x800 resolution (RXT-10)
- 250 nits
- Quad core processor running Android™ 7.1
- ReAX™ Core Engine
- 1Gb RAM
- 8Gb storage
- 1 RS-232, 1 RS-485 & 4 digital I/O
- USB type A
- Home button with room status lighting (red, green, yellow)
- Ambient light sensor
- 1 2-watt speaker (RXT-7) or 2 2-watt stereo speakers (RXT-10)
- Microphone
- 10/100 LAN PoE
- Auxiliary 12v power
- Magnetic mounting

Accessories:

Software
- ReAX™ Core Studio

Mounting Options
- RXT-BB7 backbox — RXT-7 Backbox
- RXT-BB10 backbox — RXT-10 Backbox
**RXT-7D & RXT-10D**

The RXT-7D and RXT-10D are the World’s first ReAX JavaScript™ based Touch Panel/Control Systems. Ideal for conference rooms, educational facilities, digital signage and more. Designed to sit on any flat surface, the RXT-10D has a beautiful touch screen with 170-degree viewing and room status lighting. The 2D and 3D graphics engine with H.264 streaming decoder provides a powerful solution for complex graphics and video, ensuring an enhanced user experience. To further enhance the experience the RXT-7D and RXT-10D has a 2-watt speaker system, and digital microphone for conferencing. The RXT-7D and RXT-10D are powerful ‘all in one’ solutions for your presentation and automation needs. Core Studio tool is available free of charge for code and interface creation.

- 7” 1024x600 resolution (RXT-7D) or
  10” 1280x800 resolution (RXT-10D)
- Quad core processor
- 1Gb RAM, 8Gb Flash (RXT-7D) or
  2Gb RAM, 16Gb Flash (RXT-10D)
- ReAX™ Server running on Android™ 6.0
- Audio decoder MP3/WMA/AAC
- Video decoder 1080P MPEG-1/2/4, H.263, H.264 & H.265
- HDMI output
- Micro USB 2.0 (RXT-7D) or
  4 USB 2.0 (RXT-10D)
- 2MP front camera
- Wi-Fi 802.11b/g/n
- Bluetooth® 4.0
- SD card slot up to 32Gb

- 2 1-watt speakers
- PoE (RXT-10D)

**Accessories:**

- Software
  - ReAX™ Core Studio

- Cables
  - CA-HDMI
The RXS-1 ReAX™ Server is an industrial grade fanless PC running Linux with the ReAX™ Core Engine. This server has enough power to automate any facility and run other applications such as the IPBaseT® Manager Pro for full management of the IPX and VLX AV over IP product series.

- Intel® Core™ i5-5200U 2.2GHz dual core CPU with 2.7GHz turbo boost (Broadwell core architecture)
- Linux® OS (supports Windows® 7/8/10)
- 8Gb RAM
- 128Gb SSD (supports double hard drives)
- ReAX™ core engine
- SD card slot
- 300M built-in Wi-Fi
- 2 HDMI® 4K30 4:4:4, 4K60 4:2:0
- 2 RJ-45 1G LAN port
- 4 USB 2.0, 4 USB 3.0
- Fiber optic SPDIF
- Microphone input
- Speaker/line output
- IPBaseT™ Manager Enterprise Edition

**Accessories:**

- Touch Screen Controllers
  - RXT-7
  - RXT-10

- Touch Screen Desktop Controllers
  - RXT-7D
  - RXT-10D

- Cables
  - CA-HDMI
RXC-1 & RXC-3

The RXC-1 and RXC-3 is a stand-alone control system built on the ReAX™ operating system. This Linux based OS has been engineered from the ground up to provide a robust and flexible control system platform, based on Aurora’s years of experience in the control industry. As with all Aurora control systems, the RXC is a web based control system. Custom programming and GUIs created with our free ReAX™ Core Studio software get loaded in to the built-in web server, allow virtually any device with a web browser to display the GUI and control the system. Examples include a PC browsers, dedicated touch panels like the Aurora RXT series, tablets, phones, and more.

The small size and flexible architecture allows the RXC to be used as a full standalone controller, an expansion controller, or a hybrid of the 2. This allows for a distributed control network - place control ports right where they are needed in your system rather than long cable runs from a central location. RXC controllers have a full complement of LAN, RS-232, relay, I/O, and IR ports for controlling external devices. An IR receiver enables the internal IR learner – no extra hardware required. In addition to network control and access to the GUI and configuration web pages, the LAN port is also capable of power over Ethernet (PoE), eliminating the need for an additional power supply.

- Stand-alone web-based control processor running the latest ReAX™ control engine
- Allows for scheduling, automation & system-wide control
- Custom control GUIs are served up in a web browser (including touch panels, tablet’s, etc.)
- Programmable with Aurora’s free tools
- Powered via 48v power supply or PoE
- 1 LAN port with PoE PD (RXC-1) or 2 LAN ports with 1 PoE PD (RXC-3)
- 1 RS-232 port (RXC-1) or 3 RS-232 ports (RXC-3)
- 2 SPDT relays
- 2 I/Os
- 2 IR outputs (RXC-1) or 3 IR outputs (RXC-3)
- 1 IR receiver
- 2 USB 2.0 device ports (RXC-3)

IR Emitters
- CA0061-1

Accessories:
- Mounting Options for RXC-1
  - RK1-1-K — 1RU Dual Rack Mount Kit
  - RK1-4-K — 4RU Rack Mount Kit (Holds 11 Units)
  - RK1-BP — Blank Plate for Rack Mounts
  - RK1-RL — Mounting Rails for Rack Mounts

- Mounting Options for RXC-3
  - RK2-1-K — 1RU Dual Rack Mount Kit
  - RK2-5-K — 4RU Rack Mount Kit (Holds 11 Units)
  - RK2-BP — Blank Plate for Rack Mounts
  - RK2-RL — Mounting Rails for Rack Mounts

Power Supply
- PS0081-1 — 48V 24 Watt PoE Injector
- PS0094-2 — 48V 25 Watt Wall Supply
RXC-4
The RXC-4 is a Quad Core IP Control System, ideal for conference rooms, educational facilities, digital signage and more. With full Web Server capabilities, the RXC-4 can serve up Web Control Pages to any iPad®/Android™/Microsoft® tablet or web browsing device ensuring an enhanced user experience.

The RXC-4 has a variety of on-board Ports to control many different types of equipment such as but not limited to Serial Ports for devices like projectors, IR Ports for BluRay players, relays for screen or shade control, and I/O Ports for door and motion sensor devices. Of course the dual-port 1Gbps LAN is accessible for TCP/IP, HTTP Post, UDP and Telnet Control of virtually unlimited amount of Ethernet based AV devices.

- Quad core processor 1GHz per core
- 2Gb 1066 DDR3 RAM/8Gb flash
- ReAX™ IP control engine with web server, FTP, real-time clock, conditional actions, parsing, & many more features
- 4 bi-directional RS-232, 4 IR/1-way serial ports, 4 I/O with A/D, & 4 relays
- USB 2.0
- Stereo line I/O
- Dual 1G LAN with PoE (LAN1)
- Front panel display & keypad
- 1RU half-rack for single & dual rack-mounting

Accessories:

**IR Emitters**
- CA0061-1

**Mounting Options**
- RK4-1S-K — 1RU Single Rack Mount Kit
- RK4-1D-K — 1RU Dual Rack Mount Kit

**Port Expansion**
- LXC-1
LXC-1
The LXC-1 is a low cost high performance IP to port expander. Designed for control port expansion, the LXC-1 has a variety of ports including one serial, one IR, two relays, and two I/O ports. The internal Flash memory provides the ability for storing and serving up web-control pages for complete in room and remote control. All configuration of ports and can be done with the integrated setup web page. The LXC-1 works with all Aurora IP control products and 3rd party control too.

- 32 bit RISC processor
- 256Kb RAM, 1Mb Flash, >4Gb micro SD
- Telnet/TCP controlled
- 1 serial port
- 2 c-type relay ports
- 2 digital I/O ports
- IR port
- 10/100 LAN PoE (power over ethernet)
- Integrated web server
- Integrated setup web pages
- Low power
- Compact size, easily fits under tables, behind displays, & in cabinets

Accessories:

**IR Emitters**
- CA0061-1

**Power Supply**
- PS0094-2 — 48V 25 Watt Wall Supply
DXB-8 & DXB-8i

The DXB Series is a customizable low cost 8 button single gang button panel. Designed to work with just about any RS-232 device on the market, the units allow any RS-232 string to be assigned to the press and release of each button (DXB-8i adds IR and Ethernet capabilities). Even repeat-on-hold and toggle functions are available. The buttons can individually be lit red, green, or blue so in dimly lit areas it can be seen. Low cost, low power, simplicity, and compatibility with just about any device on the market makes the DXB Series the simple sweet solution of choice.

- 8 backlit Interchangeable laser etched buttons (red, green & blue)
- Choose from over 50 different buttons, custom buttons can be made to order
- Programmable on press, release, toggle, & hold
- Macro functions & interlocking buttons
- Fits in standard 1 gang Decora® style outlet
- 2 RS-232 (DXB-8) or 1 RS-232 & 1 IR ports (DXB-8i)
- LAN PoE (DXB-8i)
- 9,600 – 115k baud rate selectable
- Low power
- 5v DC powered (DXB-8) or 48v DC aux power (DXB-8i)
- Low depth .48” (DXB-8) or .98” (DXB-8i) for floor & table boxes

**DXI Programmer**

The Digital Xtreme Interface (DXI) Software allows you to easily program your DXB-8 and DXW-2 series wall plates to control your connected devices via RS-232.

**DXB-8/8i Button Cap Selection Sheet**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>TV</td>
<td>TV1</td>
<td>TV2</td>
<td>HDMI</td>
<td>HDMI1</td>
<td>HDMI2</td>
<td>DVD</td>
<td>VIDEO</td>
<td>SAT</td>
</tr>
<tr>
<td>2</td>
<td>AUX</td>
<td>AUX1</td>
<td>AUX2</td>
<td>PROJ</td>
<td>PROJ1</td>
<td>PROJ2</td>
<td>DOC</td>
<td>PC</td>
<td>PC1</td>
</tr>
<tr>
<td>3</td>
<td>YPBPr</td>
<td>VCR</td>
<td>VTC</td>
<td>VGA</td>
<td>VGA1</td>
<td>VGA2</td>
<td>SCRN UP</td>
<td>SCRN DN</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BLANK

Please order DXB-CB-W for white, DXB-CB-B for black.

**DXB-8/8i Button Cap Selection Sheet Notes:**

- A blank (non-etched) button is also available
- Buttons can be reversed 180°, but not 90° or 270°
- Button 4B is used for play, left & right
- Button 4D is used for fast forward & rewind
- Button 4E is used for next & previous
- Button 4F is used for up & down
- PN# formula: DXB-C[row][column]-[color]
  PN# Ex: white PROJ button PN# = DXB-C2D-W

**Accessories:**

- Power Supply
  - PS0045-5 5vDC

- Programming Software
  - DXI Programmer
The TS-100 is a low-cost, high performance wireless huddle room solution. Aurora’s TeamStream™ Technology enhances the usability of wireless presentation systems by eliminating the mouse trail found on many wireless solutions. The TS-100 allows over 20 users at 1080p to have access and integrates cleanly into the room. Sometimes wireless is not enough as wired devices must be connected too which is why we added three HDMI® ports capable of 4K60 4:4:4 and one VGA for legacy. Control automation has been considered with the available RS-232, relays, and I/O for integration with control solutions. Aurora’s TeamStream™ redefines wireless huddle room solutions with features, capabilities and pricing just not available till now.

- Real-time mouse movement, no trailing cursor
- Uses computer’s Wi-Fi to deliver up to 1080p
- Dual view of wireless content
- 1 VGA input
- 3 HDMI® inputs 4K60 4:4:4
- 4K scaled HDMI® output (4K60 4:4:4)
- Built-in control expansion
- HDMI® CEC control
- RS-232 (serial port)
- Relay ports for screen control
- I/O ports for in-room sensor integration
- Line in/out
- 4 USB keys & holder included

**Accessories:**
- TS-K1 — USB 2.0/C key
- TS-KH4 — Round USB key holder – holds 4

**Cables**
- CA-HDMI
HTW-2
The HTW-2 HDBaseT™ 2.0 transmitter wall plate is part of Aurora’s HT Series capable extending 4K60 4:4:4 & HDR (18Gbps) 330ft (100m) with unshielded cable. This 2 gang low depth Decora™ wall plate is not only stylish but extremely functional with 3 inputs (one VGA and two HDMI®). Directional USB to allow a user to choose which side the host (PC) vs the device (peripheral) will be located. Built in IP port expansion allows any 3rd party control system to send commands directly to the unit for source switching, RS-232, and IR control.

Aurora is the only product to allow a single PoE port power both the TX and RX at the same time with no wall supplies required for a very clean installation. For easier integration into an audio system, the HT Series is the only HDBaseT™ product to have optional Dante™/AES67 up to 8 channels for surround sound. The Aurora HT Series re-invents the capabilities of HDBaseT™ beyond the typical point to point making it the ultimate HDBaseT™ integrator solution.

- 4K60 4:4:4 18Gbps
- HDR (high dynamic range)
- 330ft (100m) with unshielded cable
- HDMI® 2.0/HDCP 2.2
- Audio DSP & Dante™/AES67 2 or 8-channel options
- ARC (audio return channel) to HDMI®, line out & Dante™/AES67
- Operate & power both TX & RX from a PoE switch
- Bi-directional PoH (power over HDBaseT™)
- Auto switching
- 2 HDMI® & 1 VGA inputs
- 2 10/100 LAN ports
- USB 2.0 device/host with selectable direction
- IP, RS-232 & IR control
- 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-REAX-1 — ReAX™ IP Control

Mounting Options
- LVR-2G — 2 Gang Electrical Ring

Cables
- CA-HDMI
HTE-TX2 & HTE-RX2

The HTE-TX2 HDBaseT™ 2.0 transmitter and HTE-RX2 receiver are part of Aurora’s HT Series capable extending 4K60 4:4:4 & HDR (18Gbps) 330ft (100m) with unshielded cable. Advanced capabilities make this product a true integrator solution. Directional USB to allow a user to choose which side the host (PC) vs the device (peripheral) will be located. Built in IP port expansion allows any 3rd party control system to send commands directly to the unit for source switching, RS-232, and IR control.

Aurora is the only product to allow a single PoE port power both the TX and RX at the same time with no wall supplies required for a very clean installation. For easier integration into an audio system, the HT Series is the only HDBaseT™ product to have optional Dante™/AES67 up to 8 channels for surround sound. The Aurora HT Series re-invents the capabilities of HDBaseT™ beyond the typical point to point making it the ultimate HDBaseT™ integrator solution.

- 4K60 4:4:4 18Gbps
- HDR (high dynamic range)
- 330ft (100m) with unshielded cable
- HDMI® 2.0/HDCP 2.2
- Audio DSP & Dante™/AES67 2 or 8-channel options
- ARC (audio return channel) to HDMI®, line out & Dante™/AES67
- Operate & power both TX & RX from a PoE switch
- Bi-directional PoH (power over HDBaseT™)
- Auto switching
- 2 HDMI® inputs
- 2 10/100 LAN ports
- USB 2.0 device/host with selectable direction
- IP, RS-232 & IR control
- 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-REAX-1 — ReAX™ IP Control

- Mounting Options
  - RK1-1-K — 1RU Dual Rack Mount Kit
  - RK1-4-K — 4RU Rack Mount Kit (Holds 11 Units)
  - RK1-BP — Blank Plate for Rack Mounts
  - RK1-RL — Mounting Rails for Rack Mounts

- Cables
  - CA-HDMI
The DXW-2 Series is a 2 Gang multi-input Decora® style wall plate with HDBaseT™ CAT extension. Its ability to convert VGA (YPbPr, S-Video, Video) with audio to HDMI® locally and transmit the signal up to 330ft (100m) sets this unit apart from the competition. The sources are auto selectable via auto-sense, front panel buttons or via RS-232 from DXB-8 or 3rd party devices. The DXW-2EU has one LAN and two USB 2.0 Ports for powering USB devices and transmitting 480Mbps up to 220ft (67m) independently to a different location.

The DXW-2EU/DXW-2EUH can be remotely powered by the DXE receiver and also has the ability to transmit IR signals via the sensor window on the front of the unit for remote control of IR controllable devices and now with embedded display control via RS-232 eliminating the need for costly display control systems. Overall, the DXW-2 saves money and simplifies an installation by combining the functionality of a switcher, converter, extender, and display controller into one neat package.

- HDMI® input & VGA with audio embedding
- VGA can accept YPbPr, s-video, and video
- LAN connector (DXW-2EU)
- HDBaseT™ 330ft (100m) extension
- 2 USB 2.0 ports (DXW-2EU/2EUH)
- USB extends independently 220ft (67m)/150ft(45m) (DXW-2EUH)
- IR receiver with 40ft (12m) Range
- Auto sense, buttons or external RS-232 for source select
- Programmable buttons for RS-232 control of displays
- Backlit buttons (red, green, and blue)
- Fits in standard 2 gang outlet box with Decora® style wall plate
- Low depth for floor and table boxes

Accessories:

Mounting Options
- LVR-2G — 2 Gang Electrical Ring

Cables
- CA0054-1 — 8” VGA to 4 RCA adapter cable (YPbPr & Composite Video)
- CA-HDMI
The DXE-CAT-4K Extenders powerful design provides usability and features not found anywhere else. Single-sided connections for LAN, HDMI®, control, and power provide a cleaner wiring and rack mounting solution. The patents pending design allows the system to be powered via POE or AC adapter from either side! With a single CAT 5e/6/6a cable, the DXE-CAT Extenders can go up to 330ft 4K UHD 30Hz with bi-directional RS-232, IR, and LAN.

- Extend up to 4K UHD 30Hz 330ft (100m) over CAT 5e/6/6a cable
- HDMI® 3D & deep color supported
- HDCP compliant
- All connectors on one side for easier installation
- Bi-directional RS-232 & IR
- 2 port ethernet switch (on TX & RX) with ethernet pass-through (DXE-CAT-4K-S2)
- Power both units from TX/RX side with LAN POE or single external power supply (24vDC included)
- LAN PoE (power over ethernet) can power both TX & RX without wall power supplies (patents pending)
- Status LED for all connections on front
- Models include: DXE-CAT-S1-4K 230ft (70m) & DXE-CAT-S2-4K 330ft (100m) with ethernet

Accessories:

Mounting Options
- DXE-CAT-RK3 — 3RU Rack Mount Kit (Holds 16 Units)
- DXE-CAT-RK3BL — Blank Plate for Rack Mount

Cables
- CA-HDMI
DXE-CAT-RX3-4K & DXE-CAT-RX3-4K-A
The DXE-CAT-RX3-4K, DXE-CAT-RX3-4K-A, are a part of the growing Digital Xtreme Series. This product is different than the typical CAT extender found on the market today as it not only breaks the price barrier but the feature and usability aspects as well. All connectors are on one side to make wiring cleaner and mounting easier. The DXE-CAT-RX3-4K Series is designed to complement the Digital Xtreme Series of HDBaseT™ transmitters such as the DXW-2 Series HDBaseT™ wall plates, DXE-CAT-4K-TX1, DXE-CAT-4K-TX2, DXM Matrixes, and etc. The built-in in relays are perfect for screen control and the amplifier will fill the room with audio when used with the Aurora SKR-22T 360 degree sound field ceiling tile speaker.

When used all together a single cable, low cost, highly integrated solution for rolling carts, podiums, and credenzas is formed. Being able to go the distance is important too, and HDBaseT™ technology helps achieve that.

- Receive 4K UHD 30Hz 330ft (100m) over CAT 5e/6/6a cable
- All connectors on one side for easier installation
- Bi-directional RS-232, IR, & LAN
- 2 relays for screen control
- 2x35 watt amplifier (DXE-CAT-RX3-4K-A)
- Differential line I/O for audio mixing & HDMI® audio de-embedding
- Volume control
- Status LED for all connections on Front
- ReAX™ IP control option

<table>
<thead>
<tr>
<th>Accessories:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option Cards</td>
</tr>
<tr>
<td>- IPE-REAX-1 — ReAX™ IP Control</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Supplies</th>
</tr>
</thead>
<tbody>
<tr>
<td>- PS0077-1 — 24v DC 90 Watt Power Supply</td>
</tr>
<tr>
<td>- PS0062-1 — 24v DC 24 Watt Power Supply</td>
</tr>
</tbody>
</table>
One Room – One Cable™ AV Kits for Classrooms & Conference Rooms

Two single-package One Room – One Cable™ kits all ship complete with 2 ceiling tile speakers, dual-input HDBaseT™ wall plate switcher, HDBaseT™ receiver with 2x35 watt amplifier and a pre-programmed 8-button in-wall control panel. This One Room – One Cable™ kit only requires a single CAT cable between the switcher and the display making installation a snap. The two kits ORC-1 and ORC-3 make specifying, ordering, deploying and installing easy, organized and streamlined. Each kit is based around Aurora’s award winning DXW-2 Series keypads. The DXB-8 control keypad comes pre-programmed for controlling the DXW-2 and DXE-CAT-RX3-4K audio. The only thing the user needs to do is drop in display on/off commands. It’s that easy!

- **ORC-1 Kit**
  - DXW-2 HDBaseT™ wall plate with VGA/HDMI®
  - DXE-CAT-RX3-4K-A HDBaseT™ receiver with dual relays for screen control & 2x35 watt amplifier
  - 2 SKR-22T 2ftx2ft ceiling tile speakers (fits in 600mm tile as well)
  - DXB-8 8-button control keypad – pre-programmed for source & audio level control

- **ORC-1C Kit**
  - Adds ReAX™ IP control option

- **ORC-3 Kit**
  - Adds ethernet, USB 2.0 to the wall plate for use with interactive displays & other USB devices (DXW-2EU/DXW-2EUH)

- **ORC-3C Kit**
  - Adds ReAX™ IP control option
DXE-122A-DS & DXE-142A-DS

The DXE-122A-DS (1x2) and DXE-142A-DS (1x4) HDMI® 4K Splitters with built-in downscaling and auto EDID Management provides one of the most advanced HDMI® splitter solutions by which the ultra high definition video and high quality audio can be transmitted to multiple locations without losing quality. The DXE Series splitters support all 3D formats and true 4K2K video.

The DXE Series splitters have firmware upgrade capability via the USB Port ensures compatibility now and in the future. With 48bit deep color video and high definition audio support, the DXE Series splitters are suitable for high quality HDMI® broadcasting, conference room, digital signage, and education applications.

- Supports HDMI® 2.0a deep color & D/DVI 1.0 compliant
- HDCP 1.4/2.2 compliant
- Built-in downscaling & auto EDID management
- EDID emulation & customizable EDID
- Resolution up to 4K2K @ 60Hz
- HDMI® in, 2 HDMI® out (DXE-122A) or HDMI® in, 4 HDMI® out (DXE-142A)
- Wide frequency range: 25MHz~600MHz
- Video bandwidth: 18Gbps
- Supports xvYCC, x.v.color, & deep color
- Mini-USB port for firmware updating & EDID setup
- Supports Dolby Digital®, DTS-HD™ & Dolby TrueHD® audio
- HDMI® & power connectors on same side for easy installation
- Ultra-low profile to fit behind displays

Accessories:

- Cables
  - CA-HDMI
DXE-218

The DXE-218 is the first ever 8 port 4K60 4:4:4 HDMI® PoE Splitter with downscaling per individual output. The unit delivers enhanced capabilities such as individual CEC control, EDID management, Hot Plug Detection, and EDID reporting per output. This is all done through the LAN port for full control and statistics of all ports.

In addition, the downscaling per port allows 1080p screens to be utilized on the same splitter with a 4K60 source. To round out the solution, the DXE-218 has two input ports to select from to change content remotely. The PoE simplifies cabling by eliminating all external power supplies. Depending on the network switch, the DXE-218 can even be power controlled remotely. The DXE-218 is the perfect solution for any HDMI® distribution providing the best in remote support, control, and capability.

- 2 HDMI® inputs
- 8 HDMI® outputs
- Resolutions up to 4K2K @ 60Hz 4:4:4
- Per port downscaling to 1080p
- LAN port
- PoE (power over ethernet)
- CEC control
- EDID management
- Hot plug detection
- EDID reporting
- Front LED status display

Accessories:

- Power Supply
  - PS0081-1 — 48V 24 Watt PoE Injector

- Cables
  - CA-HDMI
MCX-VTH
• VGA to HDMI® converter
• Supports resolutions up to 1080p

MCX-STH
• 3G SDI to HDMI® converter
• Supports resolutions up to 1080p

MCX-HTS
• HDMI® to SDI converter
• Auto detect resolution of HD-SDI, SD-SDI & 3G-SDI

CA-HDMI
• HDMI® 2.0a cable
• Flexibility & weight of a thin cable, quality of a thick cable
• Works even when coiled or pinched
• Resolutions up to 4K 60Hz 4:4:4
• Full 600MHz bandwidth with 18Gbps throughput
• HDR (high dynamic range)
• Available in red, green, blue, yellow, orange, black, & custom colors
• Sizes: 1.6ft, 3.3ft, 6.6ft, 9.8ft, & 16.4ft (0.5m, 1m, 2m, 3m, & 5m)
• Easy grip connector & enhanced strain relief

CA-HDMI Part Number Ordering Matrix:

<table>
<thead>
<tr>
<th></th>
<th>Red</th>
<th>Green</th>
<th>Blue</th>
<th>Yellow</th>
<th>Orange</th>
<th>Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6ft (0.5m)</td>
<td>CA-HDMI-RED-0.5</td>
<td>CA-HDMI-GRN-0.5</td>
<td>CA-HDMI-BLU-0.5</td>
<td>CA-HDMI-YEL-0.5</td>
<td>CA-HDMI-ORN-0.5</td>
<td>CA-HDMI-BLK-0.5</td>
</tr>
<tr>
<td>3.3ft (1m)</td>
<td>CA-HDMI-RED-1</td>
<td>CA-HDMI-GRN-1</td>
<td>CA-HDMI-BLU-1</td>
<td>CA-HDMI-YEL-1</td>
<td>CA-HDMI-ORN-1</td>
<td>CA-HDMI-BLK-1</td>
</tr>
<tr>
<td>6.6ft (2m)</td>
<td>CA-HDMI-RED-2</td>
<td>CA-HDMI-GRN-2</td>
<td>CA-HDMI-BLU-2</td>
<td>CA-HDMI-YEL-2</td>
<td>CA-HDMI-ORN-2</td>
<td>CA-HDMI-BLK-2</td>
</tr>
<tr>
<td>9.8ft (3m)</td>
<td>CA-HDMI-RED-3</td>
<td>CA-HDMI-GRN-3</td>
<td>CA-HDMI-BLU-3</td>
<td>CA-HDMI-YEL-3</td>
<td>CA-HDMI-ORN-3</td>
<td>CA-HDMI-BLK-3</td>
</tr>
<tr>
<td>16.4ft (5m)</td>
<td>CA-HDMI-RED-5</td>
<td>CA-HDMI-GRN-5</td>
<td>CA-HDMI-BLU-5</td>
<td>CA-HDMI-YEL-5</td>
<td>CA-HDMI-ORN-5</td>
<td>CA-HDMI-BLK-5</td>
</tr>
</tbody>
</table>

The DXP-62 is a presentation scaler/switcher designed for multi-signal processing of HDMI®, VGA, Component (YPbPr) and Composite inputs scaling all up to 1900x1200 HD resolution output. It accepts up to four HDMI® inputs and two VGA/YPbPr/Composite inputs and scales all to the on-board HDMI® and HDBaseT™ simultaneous outputs. Leveraging One Room – One Cable™ features, the HDBaseT™ output will pass PoH power to the included HDBaseT™ Receiver as well as RS-232 and IR control for the display. With the addition of four external audio inputs, additional Microphone input with independent volume Control, de-embedding line level stereo output and auto sensing/switching video inputs, the DXP-62 is perfect for Classrooms, Conference Rooms, and AV Cart applications.

- 4 HDMI® inputs
- 2 VGA/YPbPr/composite inputs
- 4 analog audio stereo inputs
- Microphone input
- HDMI® output
- HDBaseT™ output 230ft (70m) CAT 5e/6
- PoH (power over HDBaseT™)
- IR & RS-232 over HDBaseT™
- Scales input up to 1080p
- Auto switching feature
- Front panel button control
- Front panel LCD display
- OSD (on screen display)
- RS-232 & IR control (LAN/web control when ordered as DXP-62K-3)
- USB for firmware updating

Models include:
DXP-62: scaler/switcher only
DXP-62K-1: HDBaseT™ receiver included
DXP-62K-3: HDBaseT™ receiver with dual relays, 2x35 watt amplifier, audio I/O, & web control

Accessories:
Cables
- CA-HDMI
ASP-442A & ASP-882A

The ASP-442A (4x4) and ASP-882A (8x8) are HDMI® 2.0a 4K 60Hz matrixes offering the power and flexibility you need at a cost effective price. Route Ultra High Definition video sources and multi-channel digital audio from any of the HDMI® inputs to the any of the HDMI® outputs at the same time. The front keypad and LCD display are designed for easy operation and quick status of routing while the integrated Web Control Pages allow for remote control from any device with a Web Browser (Tablets, Computers, Smartphones, etc.) LAN and RS-232 Ports have advanced protocols allowing hot plug detection, signal detection, EDID table loading/recalling, presets, and more. The advanced protocol features make the ASP-442A/ASP-882A perfect for commercial applications with auto switching, digital signage with device detection, or residential systems with home automation.

- HDMI® 2.0a HDCP 2.2
- Resolutions up to 4K2K @ 60Hz 4:4:4
- HDR (high dynamic range)
- HDMI® 3D compliant
- HDCP 2.2 compliant
- Allows any source to be displayed on multiple displays at the same time
- Allows any HDMI® display to view any HDMI® source at any time
- Supports 7.1 channel digital audio

- Advanced EDID functions
- Easy installation with rack-mounting
- Front LCD status display

Accessories:
- Cables
  - CA-HDMI
The 4th Generation Digital Xtreme Series is a 4K60 4:4:4 modular matrix switch, card based chassis/frame, with a full complement of multimedia input and output cards. I/O cards have one channel of input or output and are available with HDMI®, HDBaseT™, and SDI interfaces. The DXM-884 allows four of the slots to be inputs or outputs allowing 12x4 configuration as an example.

The DXM-G4 series is designed for ‘ease of service’ as input and output cards can be ‘hot swapped’, allowing full serviceability while powered. Control of the DXM-G4 and connected devices is available through an integrated 5” touch screen, web server, RS-232, and LAN. The system also provides advanced EDID, HDCP, and data handling capabilities. The DXM-G4 is truly the most advanced modular matrix switch on the market today.

- 20Gbps per port backplane
- Advanced EDID management
- Advanced HDCP handling
- Remote diagnostics
- 5” front panel touch control
- Integrated web server control
- PoH for HDBaseT™ ports
- Units configurable 1-channel per card
- Break-away audio switching
- HDMI® I/O cards (output cards with audio de-embedding, & auto DVI detect)

- HDBaseT™ CAT I/O cards (powers remote TX/RX units & passes RS-232, IR, & ethernet)
- Control expansion ports
- LAN & RS-232 control

**Accessories:**

- **Cables**
  - CA-HDMI
DTX-AMP1

The DTX-AMP1 is the world’s first PoE++ 2x35 watt Dante™ amplifier to integrate IP control and audio DSP functionality. The audio DSP allows parametric equalization, noise reduction, mixing, volume control, audio ducking, and more. The IP control allows for any 3rd party control system to use the DTX-AMP1 RS-232, IR, Digital I/O, and relays as a IP port expander. The DTX-AMP1 also has a variety of audio inputs and outputs with two balanced L/R line inputs, one of which can be selected as 2 independent L/R unbalanced inputs, L/R balanced line output, S/PDIF, and L/R amplifier output. The amplifier will operate at full power with external power supply of 70W total. Depending on PoE class type connected, the DTX-AMP1 can supply up to 70W of total power. The DTX-AMP1 Dante™ amplifier allows for a complete in room audio experience and simplifies the connectivity while increasing the flexibility.

- 2x35 watt amplifier 70W total when bridged
- Web server for remote IP control & setup
- Dante™/AES67 2-channel
- Audio DSP for parametric equalization, noise reduction, & mixing
- 2 stereo balanced line in or stereo balanced, 2 stereo unbalanced
- S/PDIF in & out
- Stereo balanced line out
- PoE++ capable for up to 70W
- 10/100 LAN port
- RS-232, IR out, digital I/O, & relays
- Integrated IR receiver
- Front button control with LED status
- ReAX™ IP control option

Available Q3

DTX-AMP1

<table>
<thead>
<tr>
<th>Option Cards</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPE-REAX-1 — ReAX™ IP Control</td>
</tr>
</tbody>
</table>

Accessories:
SKR-22T & SKR-22T-XFR

The SKR-22T and SKR-22T-XFR is the latest speaker innovation from Aurora. This 25 Watt light weight speaker delivers clear sound with fidelity not normally found on typical ceiling speakers. Its ability to reproduce 360 degree sound field allows the use of only one speaker in a room for mono operation. Installation is quick, less costly, and less messy as there is no cutting of ceiling tiles or back boxes to mount. Just drop the tile into a 2ftx2ft ceiling grid, connect the speaker wire and you are done. For 4ftx2ft ceiling grids all that is required is to cut the tile in half and add a standard ceiling divider.

With the full range of audio, not only do presenters sound clear and crisp, but the presentation material is produced without missing the lows or the highs, as compared to the typical 5”–6” round ceiling speakers. When used with Aurora amplifiers found in the DXE-CAT-RX3, the amplified audio is clear and noise free with the 96% efficient Class D amplification. Available in 4 Ohm model (SKR-22T) or 70v/100v model (SKR-22T-XFR).

- 25 watts RMS
- Fits in standard 2ftx2ft or 60cmx60cm drop ceiling grid
- Frequency response 50Hz - 15KHz +/-10dB
- 4 Ohm (SKR-22T), 70v/100v (SKR-22T-XFR)
- 360 degree coverage
- 2.2” deep & weighs only 5.5lbs
- UL94V-0 rated materials
Related Products & Accessories

**IPE-DTE-1** — Dante™ 2-Channel Option Card for IPX, VLX & HT Series

**IPE-DTE-2** — Dante™ 8-Channel Option Card for IPX & HT Series

**IPE-USB-2** — ExtremeUSB® Option Card for IPX Series

**IPE-USB-2VH** — ExtremeUSB® Virtual Hub Option Card for IPX Series

**IPE-REAX-1** — ReAX™ IP Control Option Card for IPX, VLX, HT Series

**RXS-1** — ReAX™ Server

**DXB-8i** — 8 Button Controller (Customizable Wall Plate)

**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-10G20** — 10Gbps SFP+ Single Mode Dual Module 1310nm 20KM

**IPX-SFP-10G32C1** — 10Gbps SFP+ BIDI Single Mode 1330/1270nm Module 10KM

**IPX-SFP-10G23C1** — 10Gbps SFP+ BIDI Single Mode 1270/1330nm Module 10KM

**FI-GIG-GIDY-xx** — Dual OM3 Multi-Mode Terminated Fiber with LC Connectors + 18/2 Power Cable; available through West Penn Wire

**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)

**CA-HDMI** — HDMI® 2.0a Cable, resolutions up to 4K 60Hz 4:4:4, 18Gbps
### Related Products & Accessories

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RK3-1-K</td>
<td>IPX-TC3 1RU Dual Rack Mount Kit</td>
</tr>
<tr>
<td>RK2-1-K</td>
<td>VLX-TC 1RU Dual Rack Mount Kit</td>
</tr>
<tr>
<td>RK3-5-K</td>
<td>IPX-TC3 5RU Rack Mount Kit (Holds 12 Units)</td>
</tr>
<tr>
<td>RK2-5-K</td>
<td>VLX-TC1 5RU Rack Mount Kit (Holds 12 Units)</td>
</tr>
<tr>
<td>RK3-BP</td>
<td>IPX-TC3 Blank Plate for Rack Mounts</td>
</tr>
<tr>
<td>RK2-BP</td>
<td>VLX-TC1 Blank Plate for Rack Mounts</td>
</tr>
<tr>
<td>RK3-RL</td>
<td>IPX-TC3 Mounting Rails for Rack Mounts</td>
</tr>
<tr>
<td>RK2-RL</td>
<td>VLX-TC1 Mounting Rails for Rack Mounts</td>
</tr>
<tr>
<td>IPE-LCVR</td>
<td>IPX-TC3-WP2, IPX-TC3-WP3, VLX-TCW2, HTW-2 Wall Plate LAN Port Cover</td>
</tr>
<tr>
<td>CA0052-F2T3R</td>
<td>RS-232 Adapter (3.5mm TRS to Female DB9 2-TX 3-RX)</td>
</tr>
<tr>
<td>CA0052-F3T2R</td>
<td>RS-232 Adapter (3.5mm TRS to Female DB9 3-TX 2-RX)</td>
</tr>
<tr>
<td>CA0052-M2T3R</td>
<td>RS-232 Adapter (3.5mm TRS to Male DB9 2-TX 3-RX)</td>
</tr>
<tr>
<td>CA0052-M3T2R</td>
<td>RS-232 Adapter (3.5mm TRS to Male DB9 3-TX 2-RX)</td>
</tr>
<tr>
<td>CA0061-1</td>
<td>IR Emitter</td>
</tr>
<tr>
<td>CA0062-1</td>
<td>IR Receiver</td>
</tr>
<tr>
<td>LVR-2G</td>
<td>2 Gang Electrical Ring</td>
</tr>
<tr>
<td>LVR-3G</td>
<td>3 Gang Electrical Ring</td>
</tr>
<tr>
<td>IP-24PoE+</td>
<td>24 Port 10G PoE+/PoH+ 1RU Injector</td>
</tr>
<tr>
<td>PS0081-1</td>
<td>48V 24 Watt PoE Injector; available in -US, -AU, -EU, &amp; -UK worldwide models</td>
</tr>
</tbody>
</table>
Changing the Topology of AV