Founded in 1997, Aurora Multimedia products utilize state-of-the-art technologies, providing solutions that surpass typical specifications and features. Starting with the introduction of the industry’s first non-proprietary web-standards based IP control systems and touch panels, through today’s advanced HDBaseT video distribution solutions, Aurora Multimedia has become a dominant force. Advanced audio/video processors with scaling, multi-image rotation and dual/quad display processing add to the highly-adaptive, diversified product line. Aurora Multimedia provides solutions for a variety of global markets including government, education, security, hospitality, corporate and house of worship.

From the start, Aurora Multimedia Corp. has striven to push the technology envelope. We do so by developing and manufacturing our products for markets looking for the most bang-for-the-buck. Compare our products to others and you will find that we are competitive and innovative. We take pride in our products which is why we offer a 3 year warranty. Please take a moment to look over our entire product line, get involved with our innovation and share in the excitement.
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Applications

Basic Classroom Control with Input Switching
Applications
Auditorium Control and Video Distribution

Diagram showing connections for auditorium control and video distribution.

- DXB-8
- DXW-2
- ASP-S123V
- Projector
- Switch
- QXT-700

KEY:
- HDBaseT Link
- HDMI
- VGA
- RS232
- Ethernet

Stage Left
Stage Right
Applications

Video Distribution over IP
QXT-700

The QXT-700 is the World’s first platform agnostic Quad Core IP HD Touch Panel / Control System. Ideal for conference rooms, educational facilities, digital signage and more. Designed to mount into a standard 2-Gang electrical box the QXT-700 has a beautiful 1280 x 800 touch screen with 170 deg viewing. 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 QXT-700 has stereo speakers, light sensor, proximity sensor, and IR Learner. The QXT-700 is a powerful ‘all in one’ solution for your presentation and automation needs.

- 1280 x 800 Capacitive Touch Screen
- Quad Core Processor 1GHz per core
- 1GB 1066 DDR3 RAM/8GB Flash
- 2D/3D Graphic Accelerators
- 1080p 60Hz H.264 Decoder
- IP Control Engine, Web Server, FTP, Browser
- WACI Event Manger
- (2) Bidirectional RS-232, (2) IR/1-way Serial Ports, (2) I/O with A/D, (2) Relays
- USB 2.0
- Stereo Line In/Out
- 10/100/1000Mbps LAN with PoE
- Fits in 2-Gang Electrical Box
- Available in Black and White

Accessories:
- Emitter: CA0012-1, CA0012-2
- Port Expansion: WACI Nuggets, LXC-200, LVR-2G Low Voltage Mounting Bracket.
The NXT-1010/NXT-1330 series is a revolutionary development that integrates a control system processor with multiple ports into a Web-based touch screen controller. The extremely versatile hybrid combines a spectacular 10.1-inch or 13.3-inch widescreen touch panel display with a fully loaded 32-bit 900-MIPS WACI engine. The touch controller includes an internal audio mixer to complete the solution. Both versions are available with Video Preview as well (V Versions). As with any Aurora control system, you can also use with iPad, Android, or any device with a web browser as a secondary control interface!

- 13.3” or 10.1” Color Touch with Integrated Control and Video Preview (V Series only)
- 1280x800 Resolution
- 500 nits (cd/m2) Brightness
- 170 degrees horizontal and vertical viewing angle
- 2 RS-232, 2 IR, 2 I/O, 2 Relay Control Ports
- 256MB Flash, 128MB DDR2
- HDMI™ and RGBHV/YPbPr Inputs (V Series only)
- S-Video and Composite Inputs (V Series only)
- Front IR Input Receiver for IR Remotes
- Full WACI NX Control Engine
- Integrated Web Server for iPad®/Tablet Control
- Audio Stereo Line In / Out
- Dual 10/100 LAN
- Integrated Web Browser with Flash Lite
- Custom Backbox & Desktop Mount Available

NXT Accessories:

Emitters:
- CA-0012-1
- CA-0012-2

Port Expansion:
- WACI Nugget
- LXC-200

Mounting Options:
- WMB-1330/1010 (Wall)
- DTB-1330/1010 (Desktop)
NXT-350/470
NXT-350 and NXT-470 are hybrid in-wall touch panels. Just about anything in the room can be automated with its built in control ports and WACI engine. They also have line in/out audio for volume control and MP3 playback. Designed to fit in standard 2 or 3 gang electrical wall boxes. The NXT 350/470 will make any installation quick and easy. As with any Aurora control system, you can also use with iPad, Android, or any device with a web browser as a secondary control interface!

- 3.5” and 4.7” Color Touch with Integrated Control
- 320x240 and 480x272 Resolutions
- 2 RS-232, 1 IR, 1 I/O Control Ports
- 256MB Flash, 128MB DDR2
- Front IR Input Receiver for IR Remotes
- Audio Stereo Line In/Out
- Integrated Web Server for iPad®/Tablet Control
- Draws only 3.5 Watts (NXT-350) or 3.8 Watts (NXT-470) in Full Operation
- 10/100 LAN with POE
- Integrated Web Browser with Flash Lite
- Fits into Standard 2-Gang (NXT-350) and 3-Gang (NXT-470) Outlet Box

Accessories: Emitters (CA-0012-1/2), Expansion (WACI Nuggets & LXC-200), DTB-350/470 Desktop Mounts
Applications

QXT Touch Panel Room Control

QXT-700

iPad/Tablet
wifi control

Wireless router

RS232
RS232

CC
CC

DXW-3E

IR

VGA

HDMI

DISPLAY PORT

LapTop

Document Camera

DVD player
WACI-PAD is a very special and unique button panel. The buttons use micro display technology to provide multiple levels of interaction using accompanying software. Each button has the ability to morph into other buttons based on button presses or events taking place in the system. In addition, there is a built-in web server for remote IP control. The WACI-PAD 6 fits into a single and WACI-PAD 12 in a double gang electrical box. They both provide a comfortable, tactile and graphical user experience. With the built-in IR and Serial ports, the WACI PAD is the most innovative and functional control interface in the industry today. As with any Aurora control system, you can also use with iPad, Android, or any device with a web browser as a secondary control interface!

- 6 and 12 Button Multi-Layered LCD
- 1 RS-232 and 1 IR/RS-232 (TX Only) Ports
- Internal Web Server
- 10/100 LAN with POE
- LCD Backlit Buttons Turn Red, Green & Orange
- Familiarity of a button panel but functions like a touch-panel
- Remote Firmware Upgrade Capable
- Dynamic Actions
- Fits in 1 Gang (PAD 6L) or 2 Gang (PAD 12) Electrical Box
- Free WPC (WACI PAD Creator) Software Tool
DXB-8
8 Button Backlit Control Panel

The DXB-8 is a low cost 8 button single gang button panel. Designed to work with just about any RS-232 device on the market, the DXB-8 allows any RS-232 string to be assigned to the press and release of each button. Even repeat on hold is 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-8 the simple sweet solution of choice.

- 8 backlit buttons (Red, Green, Blue)
- Fits in standard 1-gang E.O. box Decora® Wall plate incl.
- 2 RS-232 ports
- Buttons individually programmable
- 9600 – 115k Baud Rate Selectable
- Designed to work seamlessly with DXW-2
- Customizable laser etched buttons (See page 44)
- Low Power
- 5v DC powered
- Low Depth .48” for Floor & Table Boxes
- Available in Black and White

DXB-8 Accessories:
Power Supply:
- PS0045-5 5vDC
Programming Software:
- DXI Programmer
QXP-2
The QXP-2 is the World’s first platform agnostic Quad Core IP HD Video Presentation / Control System. Ideal for conference rooms, educational facilities, digital signage and more. No longer is the user interface limited to a separate touch screen or other interface device as this functionality is fully integrated into the QXP-2. Using the HDMI output, the QXP-2 can be used as a digital signage player with full automation or as a touch panel interface in conjunction with its USB serial port. Capable of decoding 1080P 60Hz H.264 media and included 8GB of storage capacity makes it one of the industries first HD Video-Presentation/Control-System products on the market. With full Web-Server capabilities the QXP-2 can serve up Web-Control pages to any iPad/Android/MS tablet or web-browsing device ensuring an enhanced user experience.

- Quad Core Processor 1GHz per core
- 1GB 1066 DDR3 RAM / 8GB Flash with 2D/3D Graphic Accelerators
- 1080p 60Hz H.264 Decoder
- IP Control Engine, Web Server, FTP, Browser
- WACI Event Manager
- (2) Bidirectional RS-232, (2) IR/1-Way Serial Ports, (2) I/O with A/D, (2) Relays
- USB 2.0
- HDMI Output
- Stereo Line In/Out
- 10/100/1000Mbps LAN with PoE
- Fits in 2 Gang Electrical Box or mounts under tables, behind displays, and in cabinets.
- Dual 10/100 LAN
- Integrated Web Browser with Flash Lite

Accessories:
Emitters
- CA0012-1
- CA0012-2
Port Expansion
- WACI Nuggets
- LXC-200
LVR-2G
Low Voltage Mounting Bracket.
**WACI NX+ E1/E2**

- Non-Proprietary IP Control System
- Up to 12 RS-232/422/485, 12 IR/Serial, 12 C-Type Relays & 12 DSP (I/O, A/D, D/A)
- Dual 10/100 LAN
- Built in IR Learner and IR Input Port
- Compact Flash slot for adding additional storage
- Front Control Panel with Integrated Display
- Internal Web Server for iPad®/Tablet Control

**LXC-200**

The new LXC-200 combines all of the Nugget units in a single POE powered housing for room-based expansion including 3-serial, 2-IR/RS232, 2-relay and IO port for complete room expansion. Micro SD Slot card provides the ability for storing and serving up web-control pages for complete autonomous control.

- 3 Serial ports
- 2 IR/1-way Serial ports
- 2 Relays
- 1 I/O
- Audio Stereo Line Input/Output
- Power Over Ethernet (POE)
- Built in Web Server

**Control Accessories:**

**Emitters:**
- CA-0012-1
- CA-0012-2

**Port Expansion:**
- NX-Pand (NX+ Series only)
- WACI Nugget
- LXC-200

** Mounting Options:**
- DXK-002
- SRK-002
WACI Nuggets
IP Control Expansion Modules

WACI NUGGET SERIAL, IR, RELAY, I/O
The WACI Nugget series are fully functional stand-alone remote access controllers with an internal web server built in. It also functions as a remote expansion port for the WACI series of IP-based control systems.

All WACI Nuggets feature a POE capable LAN port, and a MicroSD card slot for file and web page storage. Extremely small form factor combined with power over Ethernet capability allows for mounting in tight locations, with only a single cable run required. As with any Aurora control system, you can also use with iPad, Android, or any device with a web browser as a secondary control interface!

• Low cost IP Based Extender
• Four Versions - Serial, IR, Relay, & I/O
• WACI Nugget Serial - 1 RS-232/422/485 port
• WACI Nugget IR - 1 IR output port, 1 A/D (for sync or current sensing)
• WACI Nugget Relay - 2 Relays ports
• WACI Nugget I/O - 2 Digital I/O ports
• Internal web server for storing control pages and other media
• Add Control Ports Anywhere on a Network
Software Solutions

Free Tools for Programming Aurora Controllers

YIPI
- Free Touch / Web Panel Creator For WACI
- Create NXT & IBZ Touch Panel Pages
- Generates Flash and HTML Interface that can be viewed in any Web Browser
- Drag and Drop Operations
- Easy to Use
- 2-Way Feedback
- Works with iPad®/Android Tablet
- Integrated FTP Upload

WOWE
- Script Based Language
- WACI Control System Event Editor
- Drag and Drop Operations
- Creates WEM files for the WACI
- Speeds Development

DXI Programmer
- Easily program Serial Macro’s for Button Activation
- Create Latching and Toggle Button configurations
- Create Ramping Button Macros for Volume/Camera control
- For use with DXB-8 and DXW Wall Plates
TRACS

TRACS is an application written by Aurora Multimedia that allows monitoring of all classrooms in an entire school and/or district[s] and makes it possible for remote control, scheduling, reports, and alerts. TRACS is the backbone of multi-room installations. Designed from the ground up using PHP, TRACS will work with any PHP server allowing it to be run on Linux®, Windows®, and OS X® Servers. TRACS can communicate with any number of controlled devices and has no user limit due to its topology. In addition, TRACS utilizes a SQL database for efficient and secure management of your system data.

- Global Management Server
- Works on Linux®, Windows®, OS X® Servers
- System Overview
- Notification Alerts
- Selectable Room Control
- Usage and Alert Statistics
- Event Scheduling
- LDAP Multi-level Password Control
- Unlimited Users
- System Wide Firmware Updating
- Customizable to User Preferences
JPX Series HD Video over IP

The JPX Series is a JPEG2000 visually lossless video system over IP that allows you to simultaneously send out an HDMI Signal (1080p video with 2.1 audio, USB & RS-232) to one or more HDMI video display devices using CAT5e/6/7 Cable over a standard Ethernet infrastructure. The JPX Series can be used to distribute HD digital content from multiple sources to many destinations on a LAN as well as Video Wall applications. AV signals are transmitted digitally over a CAT5e/6/7 cable with visual lossless quality with low latency. Internal video compression adapts to available network bandwidth if needed. The RS-232 can be used to remotely control devices from any receiver or transmitter location. A USB signal can also be passed through with the RS-232 and HDMI signal making the JPX Series a single cable solution. Computer software is available for full control and management or the optional HJ-PXC can be used to interface with control systems or other devices via LAN.

- JPEG2000 Visually Lossless Encoding/Decoding
- JPX-TX1 Transmitter / JPX-RX1 Receiver
- Seamless Switching
- Video Wall Modes
- HDMI In & HDMI Loop Output
- HDCP Compliant
- Supports HD Resolutions: 1080p, 1080i and 720p
- USB 2.0 Host (PC Side Connection)
- RS-232 Control Over IP
- PoE (Power over Ethernet)
- No Managed Switch required
- Optional IP control box (HJ-PXC) to allow matrix control and management via LAN for control systems.

**Accessories:**
- HJ-PXC LAN Matrix Controller for 3rd party control systems
- JPX-RK4 4-RU rack mount. Holds up to 9-units
Applications
Streaming Media Over IP with Seamless Switching

Diagram showing the flow of media from a laptop, Blu-ray player, and QXT-700 device to video monitors through a switch.
HPX Series HD Video over IP

The HPX Series is a high performance H.264 streaming media Encoder/Decoder solution for high definition signal delivery over IP networks. Series consists of HPX-TX1 & HPX-TX2 encoders and HPX-RX-SM & HPX-RX-VW decoders to provide complete end-to-end streaming media system as well as Video Wall and multi-view modes. It features HDMI and VGA inputs with loop-thru and adopts standard H.264/MPEG-4 AVC encoding while outputting two IP streams: a 1080p@60 stream and a 480p@60 stream. To simplify operation, computer control software and/or the HJ-PXC IP control unit is available for complete management of the system.

- Streams HDMI, VGA, & Composite Video signals over IP networks.
- Supports H.264/MPEG-4 AVC compression standard.
- HPX-RX-VW Decoder w/Video Wall Processing
- HPX-RX-SM Decoder with single & multi-picture viewing effects (up to 16 pictures) in a single screen.
- Supported Output Resolutions: 480p to 1920x1200 scaled based on sink EDID.
- Auto input format detection (HPX-TX2) to provide appropriate decoding and signal processing.
- Encoding bit rate: Selectable from 1K~40Mbps.
- Supports TCP/IP, Telnet, UDP, IGMP and H.264
- No Managed IP Switch required.
- Optional IP control box (HJ-PXC) to allow matrix control and management via LAN for control systems.
V-TUNE PRO HD

The V-Tune Pro HD delivers a total tuning solution for any integrated system, whether it requires legacy NTSC tuning or ATSC/QAM capability. The new tuner is also LAN addressable and IPTV ready, capable of decoding MPEG2, MPEG4, and H.264.

As with all Aurora Multimedia products, the VTune Pro HD is absolutely integrator-friendly. Intuitive RS-232 command sets provide reliable 2-way communication via traditional control systems, but it also provides IP-based control for networked arrays of these units. A host of video output ports will support composite video, component video, S-Video and HDMI. Audio will be supported with both unbalanced RCA connections and SPDIF coaxial digital audio. The VTune Pro HD defines versatility as it can be fit into nearly any integrated system typology.

- IPTV (RTP & UDP Streaming)
- NTSC / ATSC / QAM Tuning
- Supports H.264, MPEG-2, MPEG-4
- Dolby® Surround Sound
- Closed Captioning and V-Chip
- Streaming Input up to 1080p 24/30Hz
- Output Resolution up to 1080p
- Rack Mountable 1RU
- RS-232 / LAN Controllable
- Composite, S-Video, YPbPr, HDMI® Outputs
- Simultaneous Upscaling and Downscaling
- Built-in Web Control Interface
**DIDO PRO**

The DIDO Pro is an extremely compact and powerful, multipurpose video processor. It is a high resolution, quad image scaler with the ability to rotate the displayed image windows in ninety degree increments.

DIDO Pro can show up to 4 high resolution/full motion images on a single display with great flexibility in any format. Up to 6 inputs can be selected using the included IR remote or serial control with Aurora's WACI NX or other high end control systems. Store up to 99 presets and link together multiple DIDOs for control via a single RS-232 port.

- Quad Image Window Processing
- Real-time Image Rotation
- In/Out Resolutions up to 1080p @ 60Hz
- 2 DVI (HDCP), 2 RGBHV / YPbPr Inputs
- 2 S-Video / Composite Inputs
- 1 DVI (HDCP), 1 RGBHV / YPbPr Outputs
- Translucent PIP modes
- Front Panel Control with LCD Display
- 1RU Rack Mountable
- RS-232 Control and Daisy-chainable
DIDO Jr./LT

DIDO Jr. is the ideal video wall processor, and video image rotation engine. Integrators can design video walls with up to 64 monitors and the monitors can even be mounted in portrait position. DIDO Jr.’s image quality is visibly superior to much more expensive video wall processors and it gives any integrator the ability to produce a high quality video wall.

On-screen display menus make the DIDO Jr. a breeze to set up. Input and output resolutions are completely customizable to match the displays optimal resolutions. User presets allow for simple manipulation of the video wall. You can easily set it up to go from a single large image shown across all monitors to unique images on several groups of monitor.

- Videowall Processor
- Real-time Image Rotation [JR]
- In/Out Resolutions up to 1080p @ 60Hz
- 1 DVI (HDCP), 1 RGBHV / YPbPr Inputs
- 1 S-Video / Composite Inputs
- 1 DVI (HDCP), 1 RGBHV / YPbPr Outputs
- Standard Landscape Videowalls [LT], Portrait and Jigsaw Walls [JR]
- Front Panel Control with LCD Display
- IR Addressable Remote Control
- 1RU Rack Mount or Fits Behind the Display
- RS-232 Control and Daisy-chainable
Applications
Videowall with Control and Distribution

Diagram showing the connection of DIDO Jr, DIDO JR, QXT-700, DVI Out to TV, and HDMI Out (*Requires HDMI/DVI adaptor). The diagram also illustrates the connections to the ASP-44 4x4 Matrix and RS232 ports.
Fiber Extenders

Single and Multi-Mode

ASP-FIBRS2
• Multi-mode fiber to connect the local video source and remote peripherals at up to 1000ft [300 meters] distance
• HDCP compliant
• Supports maximum 1080p, 60Hz HDMI video resolution
• Provides Bi-Directional RS-232 communication
• Supports HDMI and DVI displays
• 850 nm Multimode Transceiver
• SC Duplex Connector
• 50/125 µm Fiber Optic Patch Cable

DXE-FIBR-S3
• DVI1.0 (non-HDCP) with virtual DDC & support for DDC2B
• 2-core multi-mode or single-mode optical LC fiber
• Supports up to 1080p 60Hz resolution
• Wide frequency range: 25MHz~165MHz
• 1500m (4921’) single-mode / 500m (1640’) multi-mode
• Auto EDID programming feature
Aspyre Series
Amplifier and VGA Extenders

AS-AMP1
• 2x20 Watt @ 4 Ohm or 1x40 Watt @ 8 Ohm as the default amplifier output
• Microphone mixer function. The microphone will be mixed to the line audio, and can be separately controlled
• Two stereo audio inputs, switchable by button, IR remote or RS-232 remote
• RS-232 control with smart feedback
• LED indicator for power and working status

AS-CAT1-VGA
• Supports up to WUXGA [1920x1200@60] or UXGA [1600x1200@60Hz] to 1,000ft (330m)
• Supports 720p component video signal to 1,000ft (330m)
• Supports RS-232 half-duplex & bi-directional IR pass-through
• Supports analog stereo audio and digital S/PDIF stereo audio
• Video and audio local out on transmitting unit for easy monitoring
• Adjustable equalization and gain control on receiving unit for signal tuning
• De-skew compensation for RGB delay control
• Wall mounting case & interlocked power jack
ASP-12/-14/-18H-4K UHD

The ASP-12H-4K [1x2], ASP-14H-4K [1x4] and ASP-18H-4K [1x8] 2k4k UHD Distribution Amps with 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 ASP-4K series supports all 3D formats and true 4K2K video. With 48 bit deep color video and high definition audio supported the ASP-4K series of distribution amps are suitable for high quality HDMI broadcasting, conference room, digital signage and education applications.

- HDMI and DVI 1.0 compliant
- HDCP 1.3 compliant
- 340MHz [up to 16 bit Y-U-V 444 supported @ 1080P]
- Video bandwidth: 10.2Gbps
- Front panel LED indicator shows the user the system
- Supports conversion of HDMI signaling to DVI
- Built-in Gain compensation and synchronization signal proofread technology
- Resolution up to 4K2K
- Automatic EDID learning and default EDID table selection
- Supports x.v.YCC, x.v.Color & Deep Color
- Supports CEC bypassing communication channel
- Supports Dolby Digital, DTS-HD and Dolby TrueHD audio formats
- Wall-mount housing design for easy installation
Digital Xtreme
SDI Converters & USB Extenders

DXE-STH
- 3G/HD/SD SDI to HDMI
- 1-channel SDI signal re-clock loop-through
- Supports RGB and YUV color space
- 3G/HD/SD SDI (Auto Adaption)
- Dual Color Status LED
- Resolutions: 480i, 576i, 720p, 1080i, 1080p

DXE-USB
- USB 2.0 Using Single CAT 5e/6 Cable
- Up to 230ft (70m) distance
- Remote power of DXE-USB-D1 (Device Side)
- 2 Port Hub (DXE-USB-D1)
- DXE-USB-H1 (Host Side) designed to work with DXW-2EU
- DXE-USB-S1 (Kit) includes DXE-USB-H1, DXE-USB-D1, and PS
Aspyre Series
HD Video Converters

**ASP-HTV**
- HDMI 1.2a & DVI 1.1 compliant
- HDMI video supports up to 1080p none HDCP
- Supports HD [1080i / 720p] component video output
- Supports up to UXGA [1600x1200@60] & WUXGA [1920x1200@60] PC graphics output
- Coaxial S/PDIF audio output
- Stereo analog audio output
- Front panel LED indicators and push button
- EDID learning ability

**ASP-VTHS**
- PC video supports up to UXGA [1600x1200] or WUXGA [1920x1200] inputs
- Output scales to 1080P60Hz
- On screen menu display for easy set up
- Audio embedder w/ analog stereo and S/PDIF audio inputs

VGA/YPbPr to HDMI w/Scaling

HDMI to VGA/YPbPr
Aspyre Series
HD Video Converters

HDMI to DVI with Audio

**ASP-HTD**
- HDMI 1.2a compatible
- Fully HDCP compliant
- DVI video up to 165MHz
- Coaxial S/PDIF audio output
- Stereo analog audio output
- Front panel LED indicators

DVI with Audio and HDMI

**ASP-DTH**
- Fully HDCP compliant
- DVI video up to 165MHz
- Coaxial S/PDIF audio input
- Stereo analog audio input
- Front panel LED indicators
Aspyre Series
HDMI Matrix Switchers

ASP-44/ASP-88
The ASP-44 4x4 & ASP-88 8x8 HDMI™ 3D Deep Color Matrixes provide the most flexible and cost effective solution in the market to route high definition video sources plus multi-channel (up to 7.1 channel) digital audio from any of the HDMI sources to the any displays at the same time. This solution is well suited for use in home theater, conference room presentation systems, or other similar setting or application.

• 4x4/8x8 HDMI Matrix Switcher
• HDMI™ 3D Deep Color
• HDCP compliant and works on all Inputs/Outputs
• Dolby® Surround Sound
• Supports up to 7.1 Channel Audio
• EDID Learning
• Resolutions Input/Output up to 1080p
• Front Panel Control with Presets
• Rack Mountable 1RU
• RS-232 and IR Control
• Optional Ethernet Control
The ASP-S123V is a presentation scaler switcher designed for multi-signal processing of Composite Video, S-Video, Component Video (YPbPr), VGA [Computer Graphics], and HDMI inputs which can be scaled to 1080p in VGA/HDMI format. It has an integrated HDBaseT extender allowing the output to extend up to 230ft [70m] at 1080p 60Hz. In addition, the microphone input, and 20 Watt amplifier makes the ASP-S123V a complete cost effective solution for education, commercial, and digital signage.

- 4 HDMI Inputs
- 4 VGA Inputs with 3.5mm TRS Audio
- 1 YPbPr Input
- 1 Composite / S-Video Input with L/R Stereo Audio
- 1 Microphone Input
- 1 HDMI Output
- 1 VGA Output with L/R Stereo Audio (For non-HDCP encrypted content)
- 1 HDMI HDBaseT CAT Extender Port 230ft [70m] 1080p 60Hz
- Scales input up to 1080p
- 2 x 10 Watt Amplifier
- Volume Control
- Front Panel Button Control with IR receiver
- RS-232 Control
- 10/100 LAN [optional]
DXW-2 Series

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 600ft sets this unit apart from the competition. The sources are auto selectable via auto-sense, front panel buttons or via RS232 from DXB-8 or 3rd party devices. In addition, there is a LAN port (DXW-2E, DXW-2EU) for connection to the network without requiring a separate wall plate. The DXW-2EU has two USB 2.0 ports for powering USB devices and transmitting 480Mbps up to 220ft (67m) independently to a different location. The DXW-2 Series 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 RS232 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.

- 1-HDMI Input & 1-VGA with Audio Embededing
- VGA can Accept YPbPr, S-Video, & Video
- 1 LAN Connector (DXW-2E, DXW-2EU)
- HDBaseT 600ft (183m) Extension
- 2 USB 2.0 Ports (DXW-2EU/2EUH)
- USB Extends Independently 220ft / 150ft 2EUH
- 1 IR Receiver (40ft Range)
- Auto Sense, Buttons or external RS-232 for Source Select
- Programmable Buttons for RS232 Control of Displays
- Buttons Backlight (Red, Green, Blue)
- Available in Black and White
Applications

HDMI Wallplate Extension via CAT cable

- RS232 Control from DXW-2
- HDMI
- DXE-CAT-RX2
- 24VDC Power Supply
- CAT5e 330ft(100m) / CAT6a Shielded 600ft(182m)

- Laptop Computer
- VGA
- DVD player
- DXW-2EU

One Room - One Cable™
DXW Series
HDMI/VGA & DisplayPort HDBaseT Wallplate

DXW-3 Series
Aurora is pleased to be the world’s first HDBaseT wall plate with Display Port, HDMI, & VGA/YPbPr. The DXW-3 Series available in white or black is a 3 gang multi-input Decora® style wall plate. Its ability to convert VGA [YPbPr, S-Video, Video] with audio to HDMI locally and transmit the signal up to 600ft sets this unit apart from the competition. The sources are auto selectable via auto-sense, front panel buttons or via RS232 from DXB-8 or 3rd party devices now with embedded Display Control via RS232 eliminating the need for costly display control systems. Overall, the DXW-3 saves money and simplifies an installation by combining the functionality of a switcher, converter, extender and display controller into one neat package.

• 1-HDMI, 1-DisplayPort and 1-VGA Input (all with Audio)
• Programmable Buttons for RS232 Control of Displays
• HDBaseT 600ft Extension
• 1 IR Receiver (40ft Range)
• Auto Sense, Buttons, RS-232 for Source Select
• Fits in Standard 3 Gang Outlet Box with Decora® style wall plate
• Low depth for floor and table boxes, Remotely or Locally Powered

DXW-1 Series
The DXW-1 is a single-gang Decora® style HDMI® wall plate with HDBaseT CAT extension. With a single CAT 5e cable, video, audio, RS-232, IR, and power can be transmitted up to 230ft away. DXW-1 wall plates save money and simplify installations by combining all signals into a single CAT cable.

• 1 HDMI Input (TX Version) w/HDBaseT 230ft (70m) Extension
• 1-IR & 1-RS-232 Pass Through
• Available in White or Black
**DXE-CAT Extenders**

The DXE-CAT Extenders are part of Aurora's expanding Digital Xtreme Series, and the first of the new HDBaseT CAT extenders. The DXE-CAT 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/6/7 cable, the DXE-CAT Extenders can go up to 330ft 1080p 60Hz 48bit color depth with bi-directional RS-232, IR, & LAN.

- Transmit HDMI up to 1080p 60Hz 48bit 330ft over one CAT 5e/6/7 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-S2 / DXE-CAT-S2C only]
- Power both units from TX/RX side with with LAN POE or single external power supply [24vDC incl]
- LAN POE (Power-Over-Ethernet) can power both TX & RX without wall supplies [Patents Pending]
- Status LED for all connections on front
- Various mounting options
- Models Incl: DXE-CAT-S1 (70m), DXE-CAT-S2 (100m w/Ethernet), DXE-CAT-S2C [S2 with control]
DXE-CAT-S2C

With Aurora’s new DXE-CAT-S2C HDMI extenders the control system is built in to the extenders themselves.

Standard HDMI extenders only PASS RS232 and IR from an external control system. Our new Extenders GENERATE RS232 and IR locally at both ends eliminating the need for a traditional control system.

8MB of internal storage for hosting and serving a Web control page. All you need to control both the Source and the Display is any Web Browsing device whether it be an iPad, Android based tablet, Laptop or computer.
### DXE-CAT Series

#### Technical Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>DXE-CAT-S1</th>
<th>DXE-CAT-S2</th>
<th>DXE-CAT-S2C</th>
</tr>
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<tbody>
<tr>
<td><strong>Technical</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Distance</td>
<td>230ft</td>
<td>600ft</td>
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<tr>
<td>Max Resolution</td>
<td>1080p 60Hz</td>
<td>1080p 60Hz</td>
<td>1080p 60Hz</td>
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<tr>
<td>Color Depth</td>
<td>36bit</td>
<td></td>
<td></td>
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<tr>
<td>RS-232</td>
<td>48bit 330ft (CAT5e) 24bit 600ft (CAT6A)</td>
<td>48bit 330ft (CAT5e) 24bit 600ft (CAT6A)</td>
<td>48bit 330ft (CAT5e) 24bit 600ft (CAT6A)</td>
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<tr>
<td>IR without LXC</td>
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<td>38kHz</td>
<td>38kHz</td>
</tr>
<tr>
<td>IR Output with LXC</td>
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<td>30Hz-100kHz</td>
<td>30Hz-100kHz</td>
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<tr>
<td>IR Input with LXC</td>
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<td>38kHz</td>
<td>38kHz</td>
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<td>2 - 10/100</td>
<td>2 - 10/100</td>
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<tr>
<td>LAN POE</td>
<td>No</td>
<td>Port 1</td>
<td>Port 1</td>
</tr>
<tr>
<td>IP Control System</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Web Server</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Real-Time Clock</td>
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<td>No</td>
<td>Yes</td>
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<td>HDMI</td>
<td>1.4 3D</td>
<td>1.4 3D</td>
<td>1.4 3D</td>
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<tr>
<td><strong>Front LED Status</strong></td>
<td>Power, Status, HDMI, HDBaseT, RS-232 TX/RX, IR In/Out</td>
<td>Power, Status, HDMI, HDBaseT, RS-232 TX/RX, IR In/Out</td>
<td>Power, Status, HDMI, HDBaseT, RS-232 TX/RX, IR In/Out</td>
</tr>
<tr>
<td><strong>Front Selections</strong></td>
<td>Reset</td>
<td>Reset</td>
<td>Reset/Setup</td>
</tr>
<tr>
<td><strong>LAN Connectors</strong></td>
<td>N/A</td>
<td>Dual 8P8C with 2 LED indicators each</td>
<td></td>
</tr>
<tr>
<td><strong>HDBaseT Connector</strong></td>
<td>RJ-45 WE/SS 8P8C</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RS-232 Connector</strong></td>
<td>3.5mm TRS</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IR Connector</strong></td>
<td>3.5mm TRS (Auto Sensing Direction for Blaster or Receiver)</td>
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<td></td>
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<tr>
<td><strong>HDMI Connector</strong></td>
<td>Type A 19 pin</td>
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<td></td>
</tr>
<tr>
<td><strong>Power Connector</strong></td>
<td>Diameter1.7mm ID, 4mm OD (EIAJ-2)</td>
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#### Mechanical

<table>
<thead>
<tr>
<th>DXE-CAT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong> [L x W x H]</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
</tr>
<tr>
<td><strong>Operation temperature</strong></td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
</tr>
<tr>
<td><strong>Package Contents</strong></td>
</tr>
<tr>
<td><strong>Options</strong></td>
</tr>
</tbody>
</table>
**DXE-CAT-RX3**
The DXE-CAT-RX3, DXE-CAT-RX3-A, DXE-CAT-RX3C, & DXE-CAT-RX3C-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 Series is designed to complement the Digital Xtreme Series of HDBaseT transmitters such as the DXW-2 Series HDBaseT wall plates, DXE-CAT-TX1, DXE-CAT-TX2, DXM Matrixes, etc. The built 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. With a single CAT cable, the DXE-CAT can go up to 330ft 1080p 60Hz 48bit color depth, 500ft 1080p 60Hz 24bit (CAT 6), or 600ft 1080p 60Hz 24bit (CAT 6A Shielded) depending on transmitter model. In addition, the RS-232, IR, & LAN can be sent over the same cable bi-directionally.

- Receive HDMI up to 600ft (183m)
- All connectors on one side for easier installation
- Bi-directional RS-232 & IR & LAN
- Two Relays for Screen Control
- 2x35 Watt Amplifier [A Version]
- Differential Line Input / Output
- Volume Control
## DXE-CAT-RX3 Technical Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>DXE-CAT-RX3 Series</th>
<th>DXE-CAT-RX3-A</th>
<th>DXE-CAT-RX3C</th>
<th>DXE-CAT-RX3C-A</th>
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<tbody>
<tr>
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<tr>
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<tr>
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<td>1080p 60Hz</td>
<td>1080p 60Hz</td>
<td>1080p 60Hz</td>
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<td>Color Depth</td>
<td>48bit 330ft (CAT5e)</td>
<td>48bit 330ft (CAT 5e)</td>
<td>48bit 330ft (CAT 5e)</td>
<td>48bit 330ft (CAT 5e)</td>
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<td>24bit 600ft (CAT6A)</td>
<td>24bit 600ft (CAT6A)</td>
<td>24bit 600ft (CAT6A)</td>
<td>24bit 600ft (CAT6A)</td>
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<td>Max 115kbps</td>
<td>Max 115kbps</td>
<td>Max 115kbps</td>
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<td>Amplifier</td>
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<tr>
<td></td>
<td>2x35 Watt 4/8 Ohm</td>
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<td>2x35 Watt 4/8 Ohm</td>
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<td>2 Normally Open</td>
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<td>30Hz-100kHz</td>
<td>30Hz-100kHz</td>
<td>30Hz-100kHz</td>
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<td>2 - 10/100</td>
<td>2 - 10/100</td>
<td>2 - 10/100</td>
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<td>LAN POE</td>
<td>Port 1</td>
<td>Amplifier Requires External Power</td>
<td>Port 1</td>
<td>Amplifier Requires External Power</td>
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<tr>
<td>IP Control System</td>
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<td>Yes</td>
<td>Yes</td>
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<td>HDMI</td>
<td>1.4 3D</td>
<td>1.4 3D</td>
<td>1.4 3D</td>
<td>1.4 3D</td>
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<tr>
<td>Front LED Status</td>
<td>Power, Status, HDMI, HDBaseT, RS-232, TX/RX, IR In/Out</td>
<td>Power, Status, HDMI, HDBaseT, RS-232, TX/RX, IR In/Out</td>
<td>Power, Status, HDMI, HDBaseT, RS-232, TX/RX, IR In/Out</td>
<td>Power, Status, HDMI, HDBaseT, RS-232, TX/RX, IR In/Out</td>
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<tr>
<td>Front Selections</td>
<td>Reset</td>
<td>Reset/Setup</td>
<td>Reset/Setup</td>
<td>Reset/Setup</td>
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<tr>
<td>LAN Connectors</td>
<td>Dual 8P8C with 2 LED indicators each</td>
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<tr>
<td>HDBaseT Connector</td>
<td>RJ-45 WE/SS 8P8C</td>
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<tr>
<td>RS-232 Connector</td>
<td>3.5mm TRS</td>
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<td>IR Connector</td>
<td>3.5mm TRS (Auto Sensing Direction for Blaster or Receiver)</td>
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<td>HDMI Connector</td>
<td>Type A 19 pin</td>
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<td><strong>Mechanical</strong></td>
<td>DXE-CAT-RX3 Series</td>
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<tr>
<td>Housing</td>
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<tr>
<td>Dimensions [L x W x H]</td>
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<tr>
<td>Weight</td>
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<tr>
<td>Mounting</td>
<td>Wall-mounting &amp; Rack Mounting</td>
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<tr>
<td>Power supply</td>
<td>24 60 Watt DC (Only 1 required on RX)</td>
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<td>Power consumption</td>
<td>5 Watts (Typical) 50 Watts (Amplifier full use) [Max]</td>
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<td>Storage temperature</td>
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<tr>
<td>Relative humidity</td>
<td>20-90% RH [no condensation]</td>
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<td><strong>Package Contents</strong></td>
<td>1x DXE-CAT-R(x) (x= 3, 3L, 3-A, 3L-A accordingly)</td>
<td>1x 24V DC 90 Watt Wall Supply</td>
<td>1x DXE-CAT-E Wall / Desk Mount Ears</td>
<td>1x User Manual</td>
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<tr>
<td></td>
<td>1x DXE-CAT-R(x) (x= 3, 3L, 3-A, 3L-A accordingly)</td>
<td>1x DXE-CAT-R(x) (x= 3, 3L, 3-A, 3L-A accordingly)</td>
<td>1x User Manual</td>
<td>215mm x 97mm x 33mm [8.46&quot; x 3.82&quot; x 1.3&quot;]</td>
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<tr>
<td><strong>Options</strong></td>
<td>IR Receiver 38kHz (CA0026-1)</td>
<td>IR Emitter (CA0012-1)</td>
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</tbody>
</table>
SKR-22T/SKR-22T-XFR
Flat 2’ x 2’ Ceiling Tile 25 Watt Speaker

The SKR-22T & 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 2×2 ceiling grid, connect the speaker wire and you are done. For 4×2 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 2’x2’ 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 and Weighs only 5.5lbs
- UL94V-0 Rated Materials
DXB-8

The DXB-8 is a low cost 8 button single gang button panel. Designed to work with just about any RS-232 device on the market, the DXB-8 allows any RS-232 string to be assigned to the press and release of each button. 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-8 the simple sweet solution of choice.

- 8 backlit buttons (Red, Green, Blue)
- Fits in standard 1 gang Decora® style outlet
- 2 RS-232 ports
- Buttons individually programmable
- 9600 – 115k Baud Rate Selectable
- Designed to work seamlessly with DXW-2
- Customizable laser etched buttons
- Low Power
- 5v DC powered
- Low Depth .48” for Floor & Table Boxes
- Available in Black and White
Applications
One Room - One Cable™
DXM-G2 Series
8x8, 16x16 and 32x32 Card Cage Matrixes

DXM-88-G2, DXM-1616-G2 and DXM-3232-G2
The DXM-88-G2, DXM-1616-G2 and DXM-3232-G2 are low cost digital media card cage matrix systems. The most prominent feature is the variety of input and cards. The Digital Xtreme Series has a variety of cards to choose from to simplify the installation and reduce the external component count. HDMI, DVI, HDSDI, VGA and HDBaseT CAT I/O cards are just some of the choices available. The DXM card frame can be controlled by RS-232 and has a redundant power supply option as well. The Digital Xtreme Series provides a flexibility ideal for commercial, house of worship, digital signage, education, military, and broadcast applications.

- 8x8, 16x16 or 32x32 digital media card cage matrix systems
- 4 inputs/outputs per card
- 12.75Gbps backplane bandwidth per channel
- Front button control panel and LCD
- LAN and RS-232 control
- 2RU (DXM-88-G2), 5RU (DXM-1616-G2), 6RU (DXM-3232-G2) rack spaces
DMX-G2 Cards

Input/Output Cards

**DXC Input:**
- DXCI-4-2S2H-G2 (2 HDMI, 2 SDI)
- DXCI-4-2V2H-G2 (2 HDMI, 2 VGA)
- DXCI-4-CVBS-G2 (4 Composite Video)
- DXCI-4-DVI-G2 (4 DVI)
- DXCI-4-HDBT1-G2 (4 HDBaseT up to 230’ each)
- DXCI-4-HDBT2E-G2 (4 HDBaseT up to 600’ each with ethernet pass-thru)
- DXCI-4-HDMI-G2 (4 HDMI)
- DXCI-4-LHDMI-G2 (4 HDMI w/HDMI loop thru for expansion)
- DXCI-4-SDI-G2 (4 3G/HD/SD SDI)
- DXCI-4-VGA-G2 (4 VGA)
- DXCI-4-YPbPr-G2 (4 Component Video)

**DXC Output:**
- DXCO-4-DVI-G2 (4 DVI)
- DXCO-4-HDBT1-G2 (4 HDBaseT up to 230’ each)
- DXCO-4-HDBT2-G2 (4 HDBaseT up to 600’ each)
- DXCO-4-HDMI-G2 (4 HDMI)
- DXCO-4-SDVI-G2 (4 DVI output with seamless switching)
- DXCO-4-VGA-G2 (4 VGA)
Applications
Restaurant/Sports Bar 12x32 HDMI Distribution

Restaurant / Sports Bar
12x32 HDMI Distribution over
HDBaseT CAT outputs w/full
RS232 Control & Tablet Support