

Extron Electronics

INTERFACING, SWITCHING AND CONTROL

2015 NEW PRODUCTS

SECOND EDITION





Extron®

Satisfaction Guarantee

As a leading manufacturer in the AV industry, we are committed to engineering and manufacturing our products to the highest standards of quality, performance, and value. From our advanced product design, manufacturing and quality control procedures to our friendly and knowledgeable support teams, our commitment to satisfy you is paramount. In every interaction with Extron, you can be confident you will receive our S3 commitment to Service, Support, and Solutions. For 32 years, our objective has been to ensure that every customer is completely satisfied with every purchase.

To underscore this commitment, we offer our Satisfaction Guarantee. This means we will work diligently to resolve any issue you have with your purchase until you are completely satisfied. Extron employees are prepared to do whatever it takes to make certain that the entire process of doing business with us is a positive and professionally rewarding experience for you.

I'm so confident in our ability to deliver on this pledge that I back it personally. If you are not satisfied with any part of your transaction with Extron, I want to know. Please contact me at president@extron.com. I will personally address any unresolved customer issue. We greatly appreciate your business. It is our intent to keep you as a customer for life.

Andrew C. Edwards

President

The World's First 50 Gbps Digital Backplane AV Infrastructure for 4K and Beyond



XTP II

XTP II CrossPoint System - The New Performance Standard for AV Switching and Distribution

The Extron XTP II CrossPoint modular matrix switchers are the first in the AV industry to offer a 50 Gbps digital switching backplane. Representing a monumental leap in engineering and product design, XTP II lets you design an AV system infrastructure with switching bandwidth that exceeds the data rate required to distribute 4K/60 video with 4:4:4 chroma sampling at 16 bits per color. The XTP II CrossPoint is the only AV technology platform that supports uncompromised 4K video while providing additional bandwidth to accommodate anticipated future video resolutions and formats. These matrix switchers can be configured with a variety of boards including the new XTP II HDMI input and output boards that support HDMI 2.0 and HDCP 2.2, a new family of XTP 4K fiber optic boards and endpoints, or any of the existing XTP Systems family products. XTP II CrossPoint is the definitive AV industry standard you can depend on now and in the future to meet the challenges of 4K and beyond.

50 Gbps Ultra Performance Backplane

XTP II CrossPoint matrix switchers are engineered to exceed the bandwidth required by HDMI 2.0 and DisplayPort 1.3 signals. The 50 Gbps digital switching backplane provides more than enough bandwidth to switch 4K/60 at 4:4:4 with 16 bits per color and anticipates future video standards. Three modular frames are available for 16x16, 32x32, and 64x64 I/O configurations.



4K Switching and Transmission over Fiber

We are excited to announce a range of new XTP 4K fiber optic I/O boards, transmitters and receivers, available in multimode and singlemode versions. The fiber optic scaling receiver features Extron **Vector™** 4K signal processing technology.

Complete Integration Platform for Digital AV

XTP II CrossPoint frames as well as the new boards, transmitters and receivers are compatible with all products in the XTP Systems family, enabling complete end-to-end system solutions, and a wide range of possibilities for future system upgrades to support video standards beyond 4K.

HDMI 2.0 Boards with HDCP 2.2

The new XTP II HDMI input and output boards offer the highest level of HDMI 2.0 performance, with a full 18 Gbps data rate throughput at each port. These boards are also HDCP 2.2 compliant.

XTP SYSTEMS

XTP II CrossPoint Series

Modular Digital Matrix Switchers with SpeedSwitch Technology

The Extron XTP II CrossPoint modular matrix switchers are the first in the AV industry with an unprecedented 50 Gbps digital switching backplane. The exceptional performance exceeds the data rate required for 4K/60 video with 4:4:4 chroma sampling at 16 bits per color. The XTP II CrossPoint is the only AV technology platform that allows you to design systems with no compromise in 4K capability, and provide ample bandwidth to accommodate future video resolutions and formats. These matrix switchers can be configured with XTP II HDMI I/O boards that support HDMI 2.0 and HDCP 2.2, the new family of XTP 4K fiber optic I/O boards and endpoints, plus all other XTP Systems family products.

COMMON FEATURES

- Ultra performance 50 Gbps data-rate digital backplane
- Modular, field-upgradeable and hot-swappable design
- Compatible with all XTP input and output boards
- RS-232 insertion from the Ethernet control port
- Remote powering of XTP twisted pair transmitters and receivers
- SpeedSwitch® Technology provides exceptional switching speed for HDCP-encrypted content
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Audio breakaway
- Ethernet extension
- Ethernet monitoring and control

XTP II

4K UHD

50 Gbps
ULTRA PERFORMANCE
BACKPLANE

XTP II CrossPoint 1600

Modular Digital Matrix Switchers from 4x4 to 16x16

UNIQUE FEATURES

- Available in I/O sizes from 4x4 to 16x16
- Optional redundant power supply
- Rack-mountable 5U, full rack width metal enclosure

Model	Version Description	Part Number
XTP II CrossPoint 1600 Frame	5U, 8-slot Frame	Call
XTP II CrossPoint 1600 Frame w/ RPS	5U, 8-slot Frame w/ redundant power	Call



XTP II CrossPoint 3200

Modular Digital Matrix Switchers from 4x4 to 32x32

UNIQUE FEATURES

- Available in I/O sizes from 4x4 to 32x32
- Redundant power supply
- Rack-mountable 10U, full rack width metal enclosure

Model	Version Description	Part Number
XTP II CrossPoint 3200 Frame	10U, 16-slot Frame	Call



XTP II CrossPoint 6400

Modular Digital Matrix Switchers from 4x4 to 64x64

UNIQUE FEATURES

- Available in I/O sizes from 4x4 to 64x64
- Redundant power supply
- Rack-mountable 20U, full rack width metal enclosure

Model	Version Description	Part Number
XTP II CrossPoint 6400 Frame	20U, 32-slot Frame	Call



XTP SYSTEMS

XTP II CP HD 4K PLUS I/O Boards

HDMI 4K/60 Input and Output Boards with Analog Stereo Audio

The Extron XTP II CP HD 4K PLUS Input and Output Boards provide local connectivity for HDMI and separate analog stereo audio for XTP II CrossPoint® matrix switchers as well as the XTP CrossPoint models. The boards comply with HDCP 2.2, and support computer and video resolutions up to 4K/60 at 4:4:4 color sampling. Embedded digital audio signals can also be routed independently. The XTP II CP HD 4K PLUS I/O matrix boards are ideal for XTP Systems® that require flexible local routing of HDMI and analog audio signals.

FEATURES

- Supports computer and video resolutions up to 4K/60 at 4:4:4 color sampling, including 1080p/60 Deep Color
- Supported HDMI 2.0 specification features include data rates up to 18 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- HDCP 2.2 compliant
- SpeedSwitch® Technology provides exceptional switching speed for HDCP-encrypted content
- Compatible with all XTP II CrossPoint and XTP CrossPoint matrix switchers
- Hot-swappable



XTP II CP 4i HD 4K PLUS



XTP II CP 4o HD 4K PLUS

XTP II

4K UHD

Model	Version Description	Part Number
XTP II CP 4i HD 4K PLUS	Four Input Board, HDMI 4K/60 w/ Stereo Audio	70-1112-01
XTP II CP 4o HD 4K PLUS	Four Output Board, HDMI 4K/60 w/ Stereo Audio	70-1113-01

XTP CP Fiber 4K I/O Boards

Fiber Optic Input and Output Boards with RS-232 and IR Insertion

The Extron XTP CP Fiber 4K Input and Output Boards enable long-haul extension of 4K video with embedded audio, bidirectional RS-232 and IR control, as well as Ethernet over one fiber optic cable. These XTP® I/O boards are HDCP-compliant, and support computer and video resolutions up to 4K, including 1080p/60 with Deep Color. To streamline integration, embedded digital audio signals can be routed independently. Also, Ethernet extension and bidirectional RS-232 and IR insertion provide LAN access and remote AV device control. Signals can be sent up to 700 meters (2,297 feet) over OM4 multimode fiber optic cable and up to 10 km (6.21 miles) when using singlemode cable. Mounted in an XTP II CrossPoint® or XTP CrossPoint matrix switcher, the XTP CP Fiber 4K I/O matrix boards allow signal extension over extreme distances within XTP Systems®.

FEATURES

- Extends video, audio, bidirectional RS-232 and IR, and Ethernet over one fiber optic cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- HDCP compliant
- SpeedSwitch® Technology provides exceptional switching speed for HDCP encrypted content
- Compatible with all XTP II CrossPoint and XTP CrossPoint matrix switchers
- Hot-swappable
- Available as multimode models for moderate-range transmissions up to 700 meters (2,297 feet) and singlemode models for extreme distances up to 10 km (6.21 miles)



XTP CP 4i Fiber 4K MM



XTP CP 4o Fiber 4K MM

4K UHD

Model	Version Description	Part Number
XTP CP 4i Fiber 4K MM	Four Input Board, Fiber 4K - Multimode	70-985-01
XTP CP 4i Fiber 4K SM	Four Input Board, Fiber 4K - Singlemode	70-985-02
XTP CP 4o Fiber 4K MM	Four Output Board, Fiber 4K - Multimode	70-986-01
XTP CP 4o Fiber 4K SM	Four Output Board, Fiber 4K - Singlemode	70-986-02

For updated product availability, go to www.extron.com

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XTP SYSTEMS

XTP FT HD 4K

XTP Fiber Optic Transmitter for HDMI

The Extron XTP FT HD 4K is an XTP® transmitter that enables extension of video, audio, bidirectional control, and Ethernet over one fiber optic cable. This HDCP-compliant transmitter supports computer and video resolutions up to 4K with 4:4:4 color sampling, including 1080p/60 with Deep Color. For streamlined integration, it features an HDMI loop-through with selectable audio control and enables embedding of analog stereo audio signals. Ethernet extension and insertion of bidirectional RS-232 and IR allow LAN access and AV device control at remote locations. Signals can be sent up to 700 meters (2,297 feet) over OM4 multimode fiber optic cable and up to 10 km (6.21 miles) when using singlemode cable. The XTP FT HD 4K is ideal for XTP Systems® that require secure, long-haul distribution of pixel-for-pixel video, audio, and control signals.

FEATURES

- Transmits video, audio, bidirectional RS-232 and IR control, and Ethernet over one fiber optic cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Bidirectional RS-232 and IR insertion for AV device control
- HDMI loop-through with selectable audio control
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- Compatible with all XTP products
- Available as a multimode model for moderate-range transmissions up to 700 meters (2,297 feet) and a singlemode model for extreme distances up to 10 km (6.21 miles)



Model	Version Description	Part Number
XTP FT HD 4K MM	HDMI Transmitter - Multimode	60-1276-11
XTP FT HD 4K SM	HDMI Transmitter - Singlemode	60-1276-12

XTP FR HD 4K

XTP Fiber Optic Receiver for HDMI

The Extron XTP FR HD 4K is an XTP® receiver that enables extension of video, audio, bidirectional control, and Ethernet over one fiber optic cable. This HDCP-compliant receiver supports computer and video resolutions up to 4K with 4:4:4 color sampling. For streamlined integration, it provides selectable HDMI audio pass-through, audio de-embedding to digital S/PDIF or analog stereo audio outputs, and relays for room control. Ethernet extension and insertion of bidirectional RS-232 and IR allow LAN access and AV device control at remote locations. Signals can be delivered up to 700 meters (2,297 feet) over OM4 multimode fiber optic cable and up to 10 km (6.21 miles) when using singlemode cable. The XTP FR HD 4K is ideal for XTP Systems® that require secure, long-haul distribution of pixel-for-pixel video, audio, and control signals.

FEATURES

- Accepts video with embedded audio, bidirectional RS-232 and IR control, and Ethernet over one fiber optic cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Bidirectional RS-232 and IR insertion for AV device control
- HDCP compliant
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- HDMI audio de-embedding with multi-channel digital S/PDIF audio and analog stereo audio outputs
- Two relays for controlling room functions
- Compatible with all XTP products
- Available as a multimode model for moderate-range transmissions up to 700 meters (2,297 feet) and a singlemode model for extreme distances up to 10 km (6.21 miles)



Model	Version Description	Part Number
XTP FR HD 4K MM	HDMI Receiver - Multimode	60-1276-21
XTP FR HD 4K SM	HDMI Receiver - Singlemode	60-1276-22

XTP SYSTEMS

XTP SFR HD 4K

XTP Fiber Optic Scaling Receiver for HDMI

The Extron XTP SFR HD 4K is an XTP® scaling receiver for extending video, audio, bidirectional control, and Ethernet over one fiber optic cable. It accepts signals from XTP Fiber transmission products, and incorporates Extron Vector™ 4K scaling technology to deliver selectable HDMI output resolutions up to 4K with uncompromised image quality. For streamlined integration, it features on-screen menus, audio de-embedding to digital S/PDIF or analog stereo audio outputs, and relays for room control. Ethernet extension along with RS-232 and IR insertion allow LAN access and remote AV device control. Signals can be delivered up to 700 meters (2,297 feet) over OM4 multimode fiber optic cable and up to 10 km (6.21 miles) over singlemode cable. The XTP SFR HD 4K is ideal for XTP Systems® that require long-haul distribution and scaling of 4K video.

FEATURES

- Accepts video with embedded audio, bidirectional RS-232 and IR control, and Ethernet over one fiber optic cable
- Advanced Extron Vector™ 4K scaling technology
- Selectable output rates from 640x480 to 3840x2160
- Bidirectional RS-232 and IR insertion for AV device control
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Ethernet extension
- HDMI audio de-embedding with multi-channel digital S/PDIF audio and analog stereo audio outputs
- Compatible with all XTP products
- RS-232 control
- Available as a multimode model for moderate-range transmissions up to 700 meters (2,297 feet) and a singlemode model for extreme distances up to 10 km (6.21 miles)



4K UHD
VECTOR 4K
SCALING

Model	Version Description	Part Number
XTP SFR HD 4K MM	HDMI Scaling Receiver - Multimode	60-1278-21
XTP SFR HD 4K SM	HDMI Scaling Receiver - Singlemode	60-1278-22

VECTOR 4K

VECTOR 4K
SCALING

For over 20 years, Extron has been at the forefront of the AV industry in engineering and designing scaling technology for uncompromised image clarity and mission-critical performance. Extron has been awarded 24 worldwide patents for its innovative scaling and video processing technologies.



Vector 4K is the latest generation of Extron scaling engines, engineered in-house for critical quality imaging, and allowing customization to meet the needs of unique AV applications.

Vector 4K Image Processing

The Extron Vector 4K scaling engine provides the pixel management and unparalleled processing capability necessary to deliver the best possible image quality for 4K as well as any other source content.

Unparalleled, Patented Scaling Quality

Vector 4K scaling incorporates bicubic interpolation through an Extron-optimized approach that delivers high quality images for resolutions up to 4K, while maintaining maximum processor efficiency – a critical design factor for compact AV products.

Color Sampling

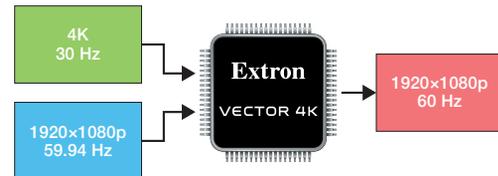
Some competing scalers employ 4:2:2 or 4:2:0 chroma subsampling. This may be acceptable for full-motion video, but not for PC-generated content. Vector 4K processing is always performed with full 4:4:4 color sampling.

Color Bit Depth

Vector 4K video processing maximizes grayscale and color accuracy, maintaining color fidelity and detail present in the native source content.

Frame Rate Conversion

Vector 4K processing includes high performance frame rate conversion that always delivers images free of visual motion artifacts, and provides uninterrupted sync to a display.



Patented Motion-Adaptive Deinterlacing and Automatic Film Cadence Detection

Extron Vector 4K scaling delivers highly accurate motion-adaptive deinterlacing, with precision analysis and processing of static and motion content. Extron's proprietary 3:2 and 2:2 cadence detection automatically identifies film-originated content, delivering superior reproduction of the original film frames.

Dynamic Input Detection

The Vector 4K scaling engine simplifies integration of unique source formats into AV systems, by automatically detecting and capturing uncommon video signals before processing them for precise conversion and scaling.

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DTP SYSTEMS

DTP CrossPoint 108 4K
10x8 Seamless 4K Scaling Presentation Matrix Switcher

The Extron DTP CrossPoint® 108 4K is a 10x8 matrix switcher with HDMI and DTP™ twisted pair inputs and outputs, 4K scaling, audio DSP with AEC, an integrated audio power amplifier, and a built-in IPCP Pro 350 control processor. It provides complete system integration for large AV systems in a 3U enclosure, supporting applications requiring several displays, sound reinforcement, and AV system control. All inputs and outputs support video resolutions up to 4K. The DTP matrix outputs are powered by Extron Vector™ 4K scaling technology, capable of seamless switching and scaled resolutions up to 4K. DTP extension allows connection to DTP endpoints and XTP® matrix switchers. Full audio optimization is provided by a built-in Extron ProDSP™ audio digital signal processor that can be linked to a second Extron DSP for I/O expansion.

Extron Vector™ 4K Scaling Technology

Vector 4K is the latest generation of our scaling engines specifically engineered for critical-quality imaging. Extron has created a new series of signal processing technologies for upscaling, downscaling, and optimally converting 4K as well as any other source content. The Vector 4K scaling engine is the result of our extensive R&D operations with in-house engineering expertise in signal processing, image rendering, software engineering, and computing platform integration.

DSP with AEC and Automixer

The DTP CrossPoint 108 4K includes four independent channels of high performance AEC - acoustic echo cancellation, as well as selectable noise cancellation, for conferencing applications. Extron AEC features advanced algorithms that deliver fast echo canceler convergence for optimal intelligibility, or when near end talkers use wireless microphones. The DTP CrossPoint 108 4K also features an automixer with gated and gain sharing modes for managing up to eight groups of microphone signals to create a fine-tuned, natural sounding mic mix.

Seamless Switching and Logo Keying

The DTP CrossPoint 108 4K provides the ability to customize your 4K presentation. You can upload and place logo bitmaps on any scaled output video signal as a foreground or background image. Each scaled DTP output can be associated with a different logo.

FEATURES

- All in one 10x8 4K matrix switcher, scaler, audio DSP with AEC, audio power amplifier, and control processor
- Four DTP inputs and six HDMI inputs
- Four HDMI outputs and four independently scaled DTP outputs
- 4K matrix switching and scaling with logo keying
- Integrated DTP inputs and outputs support transmission of video, control, and audio up to 330 feet (100 meters) over a shielded CATx cable
- Advanced Extron Vector™ 4K scaling engine
- Selectable scaled DTP output rates from 640x480 to 2560x1600 and 4K
- Compatible with DTP 230 Series and DTP 330 Series, plus XTP® CrossPoint matrix switchers
- DTP outputs are compatible with HDBaseT-enabled displays
- Remote powering of DTP transmitters and receivers
- RS 232 insertion from the Ethernet control ports
- Available with integrated IPCP Pro 350 control processor:
 - Supports TouchLink® Pro touchpanels
 - Supports LinkLicense™
 - Integrated three-port network switch
- Bidirectional RS 232 and IR insertion for AV device control
- HDMI audio embedding and de-embedding
- Output volume control
- Audio input gain and attenuation
- Audio breakaway
- S/PDIF audio output
- Four mic/line inputs with 48 volt phantom power
- Integrated audio digital signal processor with ProDSP™ 32/64 bit floating point signal processing
- Four channels of AEC - acoustic echo cancellation
- Automixer with eight groups
- Digital audio expansion port provides interfacing to an Extron DMP 128 processor for audio system scalability
- Mic ducking
- DSP Configurator™ Software
- Available with energy efficient Class D stereo or mono amplifier:
 - 2 x 50 watts @ 4 ohms; 2 x 25 watts @ 8 ohms
 - 1 x 100 watts @ 70 volts
- Seamless switching
- Key Minder®, EDID Minder®, and SpeedSwitch® Technology



DTP CrossPoint 108 4K



DTP CrossPoint 108 4K IPCP SA



DTP CrossPoint 108 4K IPCP MA 70

VECTOR 4K
 SCALING

Model	Version Description	Part Number
DTP CrossPoint 108 4K	Preamp Output, w/o Amplifier and Control Processor	60-1381-01
DTP CrossPoint 108 4K IPCP SA	2 x 50 Watt Stereo Power Amplifier	60-1381-12
DTP CrossPoint 108 4K IPCP SA	2 x 50 Watt Stereo Power Amplifier, LinkLicense	60-1381-12A
DTP CrossPoint 108 4K IPCP MA 70	100 Watt 70 V Mono Power Amplifier	60-1381-13
DTP CrossPoint 108 4K IPCP MA 70	100 Watt 70 V Mono Power Amplifier, LinkLicense	60-1381-13A



DTP SYSTEMS

IN1608 HDBT

Eight Input Scaling Presentation Switcher with Signal Extension

The Extron IN1608 HDBT adds a new model to the IN1608 Series, with an output that is dedicated to HDBaseT operation. This HDBaseT certified product streamlines integration with HDBaseT-enabled displays. The IN1608 HDBT is an HDCP-compliant scaling presentation switcher with four HDMI inputs, two universal analog video inputs, and two Extron DTP™ inputs. It includes dual HDMI outputs, one HDBaseT-compatible output, an integrated Class D audio power amplifier, and a built-in IPCP Pro 350 control processor for complete AV system control. The twisted pair output can be used to send digital video and embedded audio, plus bidirectional RS-232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable. The IN1608 HDBT provides the convenience of supporting local and remote sources and displays, with fast and reliable source switching, and a high performance scaling engine for HDMI and analog sources. The IN1608 HDBT also includes a host of audio switching and processing features.

FEATURES

- Integrates HDMI, analog video, and audio sources into presentation systems
- Two DTP inputs, four HDMI inputs, and two universal analog video inputs
- Three simultaneous video outputs, including one HDBaseT twisted pair output and two HDMI outputs
- Integrated DTP inputs support transmission of video, control, and analog audio up to 330 feet (100 meters) over a shielded CATx cable
- Available with integrated IPCP Pro 350 control processor
- Available with energy efficient Class D stereo or mono amplifier:
2 x 50 watts @ 4 ohms; 2 x 25 watts @ 8 ohms
1 x 100 watts @ 70 volts
- Selectable output rates from 640x480 to 1920x1200, including 1080p/60 and 2K
- Advanced scaling engine with 30-bit precision processing and motion-adaptive deinterlacing for signals up to 1080i



IN1608 HDBT



IN1608 HDBT IPCP SA



IN1608 HDBT IPCP MA 70



Model	Version Description	Part Number
IN1608 HDBT	Standard Model, HDBaseT Out	60-1238-71
IN1608 SA HDBT	2 x 50 Watt Stereo Amp, HDBaseT Out	60-1238-72
IN1608 MA 70 HDBT	100 Watt 70 V Mono Amp, HDBaseT Out	60-1238-73
IN1608 IPCP SA HDBT	Control Processor, Stereo Amp, HDBaseT Out	60-1238-75
IN1608 IPCP SA HDBT	Control Proc, Stereo Amp, HDBaseT Out, LinkLicense	60-1238-75A
IN1608 IPCP MA 70 HDBT	Control Proc, 70 V Mono Amp, HDBaseT Out	60-1238-76
IN1608 IPCP MA 70 HDBT	Control Proc, 70 V Amp, HDBaseT Out, LinkLicense	60-1238-76A

DTP HD DA 4K

Four and Eight Output DTP Distribution Amplifiers

The Extron DTP HD DA 4K Series of distribution amplifiers provide one HDMI input with loop-through, and four or eight DTP™ outputs. Each twisted pair output sends HDMI, audio, and control over shielded CATx cable to Extron DTP-enabled products. The DTP HD DA 4K 230 models extend these signals up to 230 feet (70 meters), while DTP HD DA 4K 330 models extend signals up to 330 feet (100 meters). They support video resolutions up to 4K, including 1080p/60 Deep Color. The DTP HD DA 4K offers bidirectional RS-232 and IR pass-through at each DTP output, plus system level RS-232 control of AV devices via Ethernet insertion. Integrator-friendly features include remote powering of DTP receivers, EDID Minder®, Key Minder®, selectable output muting, and compatibility with HDBaseT-enabled devices.

FEATURES

- Distributes HDMI plus control and analog audio over shielded CATx cable:
Up to 230 feet (70 meters) – DTP HD DA 4K 230
Up to 330 feet (100 meters) – DTP HD DA 4K 330
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- DTP outputs are compatible with HDBaseT-enabled devices
- HDMI input loop-through
- Audio input with loop-through accepts additional analog stereo audio signals
- Remote powering of DTP receivers
- RS-232 insertion from the Ethernet control port
- Bidirectional RS-232 and IR pass-through for AV device control
- Key Minder® and EDID Minder®
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Output muting control
- Ethernet monitoring and control



DTP HD DA4 4K 230



DTP HD DA8 4K 230



DTP HD DA4 4K 330



DTP HD DA8 4K 330



Model	Version Description	Part Number
DTP HD DA4 4K 230	HDMI to Four Output DTP DA - 230 feet (70 m)	60-1437-01
DTP HD DA8 4K 230	HDMI to Eight Output DTP DA - 230 feet (70 m)	60-1438-01
DTP HD DA4 4K 330	HDMI to Four Output DTP DA - 330 feet (100 m)	60-1437-51
DTP HD DA8 4K 330	HDMI to Eight Output DTP DA - 330 feet (100 m)	60-1438-51

For updated product availability, go to www.extron.com

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DTP SYSTEMS

DTP T 3G-SDI 230 D

DTP Transmitter for 3G-SDI - Decora Wallplate

The Extron DTP T 3G-SDI 230 D is a single-gang Decora®-style transmitter for sending 3G-SDI, HD-SDI, or SDI, audio, and bidirectional RS-232 and IR signals up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP™-enabled products. It provides seamless integration of broadcast-type video signals into DTP Systems, supporting video rates up to 2.97 Gbps. The transmitter accepts analog stereo audio signals for simultaneous transmission over the same shielded twisted pair cable. It also offers many integrator-friendly features such as an input loop-through, remote power capability, and bidirectional RS-232 and IR pass-through for remote AV device control. The space-efficient, wall-mountable design of the DTP T 3G-SDI 230 D provides the convenience of placing input connections precisely where they are needed.

FEATURES

- Transmits 3G-SDI, HD-SDI, or SDI plus control and analog audio up to 230 feet (70 meters) over a shielded CATx cable
- Accepts 3G-SDI/HD-SDI/SDI signals up to 2.97 Gbps
- Buffered 3G-SDI/HD-SDI/SDI input loop-through
- Compatible with CATx shielded twisted pair cable
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP output is compatible with HDBaseT-enabled devices
- Mounts in an included single-gang Decora®-style wallplate



DTP
SYSTEMS

NOW SHIPPING

Model	Version Description	Part Number
DTP T 3G-SDI 230 D	3G-SDI Decora Tx, Black - 230 feet (70 m)	60-1479-12
DTP T 3G-SDI 230 D	3G-SDI Decora Tx, White - 230 feet (70 m)	60-1479-13

DTP T 3G-SDI 330 D

Long Distance DTP Transmitter for 3G-SDI - Decora Wallplate

The Extron DTP T 3G-SDI 330 D is a single-gang, Decora®-style, long distance transmitter for sending 3G-SDI, HD-SDI, or SDI, audio, and bidirectional RS-232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable to Extron DTP™ 330-enabled products. It provides seamless integration of broadcast-type video signals into DTP Systems, supporting video rates up to 2.97 Gbps. The transmitter accepts analog stereo audio signals for simultaneous transmission over the same shielded twisted pair cable. It also offers many integrator-friendly features such as an input loop-through, remote power capability, and bidirectional RS-232 and IR pass-through for remote AV device control. The space-efficient, wall-mountable design of the DTP T 3G-SDI 330 D provides the convenience of placing input connections precisely where they are needed.

FEATURES

- Transmits 3G-SDI, HD-SDI, or SDI plus control and analog audio up to 330 feet (100 meters) over a shielded CATx cable.
- Accepts 3G-SDI/HD-SDI/SDI signals up to 2.97 Gbps
- Buffered 3G-SDI/HD-SDI/SDI input loop-through
- Compatible with CATx shielded twisted pair cable
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP output is compatible with HDBaseT-enabled devices
- Mounts in an included single-gang Decora®-style wallplate



DTP
SYSTEMS

NOW SHIPPING

Model	Version Description	Part Number
DTP T 3G-SDI 330 D	3G-SDI Decora Tx, Black - 330 feet (100 m)	60-1479-52
DTP T 3G-SDI 330 D	3G-SDI Decora Tx, White - 330 feet (100 m)	60-1479-53

DTP SYSTEMS

DTP T HD2 4K 230**DTP Transmitter for HDMI with Input Loop-Through**

The Extron DTP T HD2 4K 230 is a transmitter for sending HDMI with embedded audio, and bidirectional RS-232 and IR signals up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP™-enabled products. It provides one HDMI input with loop-through to support local monitoring of digital video, and one DTP output. The DTP T HD2 4K 230 supports video signals at resolutions up to 4K, including 1080p/60 Deep Color. It offers many integrator-friendly features such as EDID Minder®, Key Minder®, bidirectional RS-232 and IR pass-through for remote AV device control, and compatibility with HDBaseT-enabled devices. The compact enclosure size and remote power capability make the DTP T HD2 4K 230 ideal for discreet placement in lecterns, beneath tables, or wherever needed to meet application requirements.

FEATURES

- Transmits HDMI plus control up to 230 feet (70 meters) over a shielded CATx cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Buffered HDMI input loop-through
- Compatible with CATx shielded twisted pair cable
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP output is compatible with HDBaseT-enabled devices



DTP
SYSTEMS

4K UHD

Model	Version Description	Part Number
DTP T HD2 4K 230	HDMI Tx - 230 feet (70 m)	60-1491-12

DTP T HD2 4K 330**Long Distance DTP Transmitter for HDMI with Input Loop-Through**

The Extron DTP T HD2 4K 330 is a long distance transmitter for sending HDMI with embedded audio, and bidirectional RS-232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable to Extron DTP™ 330-enabled products. It provides one HDMI input with loop-through to support local monitoring of digital video, and one DTP output. The DTP T HD2 4K 330 supports video signals at resolutions up to 4K, including 1080p/60 Deep Color. It offers many integrator-friendly features such as EDID Minder®, Key Minder®, bidirectional RS-232 and IR pass-through for remote AV device control, and compatibility with HDBaseT-enabled devices. The compact enclosure size and remote power capability make the DTP T HD2 4K 330 ideal for discreet placement in lecterns, beneath tables, or wherever needed to meet application requirements.

FEATURES

- Transmits HDMI plus control up to 330 feet (100 meters) over a shielded CATx cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Buffered HDMI input loop-through
- Compatible with CATx shielded twisted pair cable
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP output is compatible with HDBaseT-enabled devices



DTP
SYSTEMS

4K UHD

Model	Version Description	Part Number
DTP T HD2 4K 330	HDMI Tx - 330 feet (100 m)	60-1491-52

For updated product availability, go to www.extron.com

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+86.21.3760.1566 FAX

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+81.3.3511.7656 FAX

Extron

DTP SYSTEMS

DTP T DWP 4K 232 D

Two Input DTP Transmitter for DisplayPort and HDMI with Audio Embedding - Decora Wallplate

The Extron DTP T DWP 4K 232 D is a two input Decora®-style transmitter for sending DisplayPort or HDMI, audio, and control up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP™-enabled products. It provides one DisplayPort input and one HDMI input, with independent analog stereo audio connections. The DTP T DWP 4K 232 D supports video signals at resolutions up to 4K, including 2560x1600 and 1080p/60 Deep Color. Analog stereo audio embedding and RS-232 remote control facilitate integration in demanding professional environments. Integrator-friendly features include EDID Minder®, auto-switching between inputs, remote power capability, and bidirectional RS-232 and IR pass-through for remote AV device control. The wall-mountable design provides the convenience of placing input connections precisely where they are needed.

FEATURES

- Transmits DisplayPort or HDMI plus control and analog audio up to 230 feet (70 meters) over a shielded CATx cable
- One DisplayPort input and one HDMI input
- Auto-switching between inputs
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Analog stereo audio embedding
- Compatible with CATx shielded twisted pair cable
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP output is compatible with HDBaseT-enabled devices



DTP
SYSTEMS

4K UHD

Model	Version Description	Part Number
DTP T DWP 4K 232 D	Two Input Decora Tx, Black - 230 feet (70 m).....	60-1498-12
DTP T DWP 4K 232 D	Two Input Decora Tx, White - 230 feet (70 m).....	60-1498-13

DTP T DWP 4K 332 D

Long Distance Two Input DTP Transmitter for DisplayPort and HDMI with Audio Embedding - Decora Wallplate

The Extron DTP T DWP 4K 332 D is a two input Decora®-style transmitter for sending DisplayPort or HDMI, audio, and control up to 330 feet (100 meters) over a shielded CATx cable to Extron DTP™ 330-enabled products. It provides one DisplayPort input and one HDMI input, with independent analog stereo audio connections. The DTP T DWP 4K 332 D supports video signals at resolutions up to 4K, including 2560x1600 and 1080p/60 Deep Color. Analog stereo audio embedding and RS-232 remote control facilitate integration in demanding professional environments. Integrator-friendly features include EDID Minder®, auto-switching between inputs, remote power capability, and bidirectional RS-232 and IR pass-through for remote AV device control. The wall-mountable design provides the convenience of placing input connections precisely where they are needed.

FEATURES

- Transmits DisplayPort or HDMI plus control and analog audio up to 330 feet (100 meters) over a shielded CATx cable
- One DisplayPort input and one HDMI input
- Auto-switching between inputs
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Analog stereo audio embedding
- Compatible with CATx shielded twisted pair cable
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP output is compatible with HDBaseT-enabled devices



DTP
SYSTEMS

4K UHD

Model	Version Description	Part Number
DTP T DWP 4K 332 D	Two Input Decora Tx, Black - 330 feet (100 m).....	60-1498-52
DTP T DWP 4K 332 D	Two Input Decora Tx, White - 330 feet (100 m).....	60-1498-53

EXTRON PRO SERIES CONTROL PRODUCTS



Extron Pro Series Control Products – Introducing a New Era of Control Capabilities

For over a dozen years, Extron has been the industry leader in configurable control systems and has provided products with the power to handle the needs of professional AV applications. We are now very pleased to announce a whole new era for Extron control systems. Extron Pro Series Control Systems expand AV control capabilities with advanced configuration software, exciting new touchpanels, more powerful processing, and a broad range of other enhancements designed to support the evolving complexities of today's AV system designs. Extron Pro Series control systems includes more than 40 new products, all backed by the S³ customer support you trust.

New Powerful Configuration Software

The latest version of our Global Configurator software provides the most powerful and versatile AV control system configuration tools we have ever offered to AV system integrators. It is ideal for a wide variety of control systems and applications, and helps streamline integration within today's demanding AV control environments. Within this latest version, advanced features, such as conditional logic, variables, and macros provide even greater flexibility for more elaborate control system designs. Global Configurator has two modes. Global Configurator Plus is ideal for smaller scale applications requiring one control processor and one control interface as well as a mirrored interface. Global Configurator Professional includes all of the powerful features within Global Configurator Plus with the addition of expanded features that make it especially suited for applications requiring multiple control processors, enhanced functionality, and advanced configuration.

Support BYOD with Extron LinkLicense

Extron is introducing a new concept in user friendly control system design. A LinkLicense™ is a simple way for people to use their mobile devices or computers as a primary control interface in an Extron control system. This new option gives integrators the freedom to choose control interfaces based on their customers' specific needs. LinkLicense answers requests from customers to provide users the freedom to use their own tablets and laptops as the primary method of control within presentation environments so they may roam freely around the room. All new IPCP Pro control processors may be purchased with or without a LinkLicense.

New Larger, More Powerful Touchpanels

We have introduced 12 new TouchLink Pro touchpanels with faster processing and more memory. Five of these are in new 5", 12", and 15" sizes with vibrant, capacitive touchscreens. The two largest sizes have high resolution video preview and a bold new design with edge-to-edge glass.

TouchLink Interface – Use a Third Party Touchscreen for Control

The Extron TLI Pro 101 is a TouchLink Interface that allows a third party touchscreen display to be used as a control interface within an Extron Pro Series control system. An HDMI input provides video preview and a scaled HDMI output supports displays from 800x600 to 1920x1200, as well as HDTV 1080p/60. Power over Ethernet - PoE allows the TLI Pro 101 to receive power and communications over a single Ethernet cable. The TLI Pro 101 is ideal for control applications that require a fully customizable third party touchscreen interface with multi-source video preview and a scalable, high resolution HDMI output.

Eight New Control Processors

Our eight new IP Link Pro control processors are faster, more secure, and more powerful than ever. Built-in Gigabit Ethernet and new network protocols allow fast and secure connections. When combined with our new Global Configurator Plus and Global Configurator Professional configuration software, these control processors are capable of enhanced functions including conditional logic as well as advanced scheduling and monitoring.

RESOURCE MANAGEMENT SOFTWARE

GlobalViewer Enterprise
Server-Based AV Resource Management Software

GlobalViewer® Enterprise takes enterprise-wide scheduling, monitoring, and help-desk functionality to a new level. Building on an already powerful feature set, this latest version, 2.2, provides a host of new and enhanced features that streamline and simplify many common AV tasks. Microsoft® .NET® technology allows GlobalViewer Enterprise to integrate with third-party facility scheduling software for viewing room availability and managing meeting schedules. GlobalViewer Enterprise 2.0, and later, supports configurations created in Extron Global Configurator 3.5.x, as well as the newly-introduced Global Configurator Plus and Professional configuration software.

Powerful AV System Management

GlobalViewer Enterprise is a powerful resource management tool that is designed to leverage the security, data, and access control capabilities of Microsoft Windows Server.

AV and IT support teams will appreciate the agility and flexibility GlobalViewer Enterprise provides to access usage data, create reports, and control the system from any computer on the LAN or WAN. The Help Desk view offers one to observe the entire enterprise in a single window and gain access to detailed room data with just a click of a mouse. GlobalViewer Enterprise also supports integration of third-party control systems.



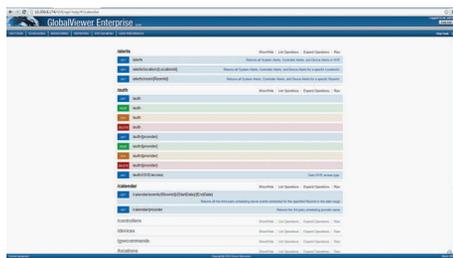
Expanded Help Desk Views

NOW AVAILABLE

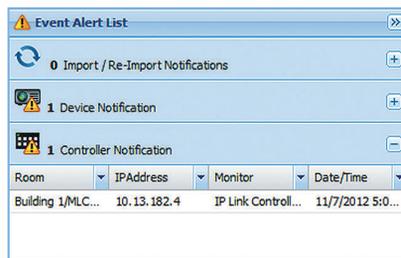
What's New in GlobalViewer Enterprise 2.2

- **Support for GC Plus and Pro Series control products**
GlobalViewer Enterprise now supports configurations created in Extron Global Configurator Plus and Professional.
- **Custom reporting API**
Custom reporting on ROI, trend analysis, device usage, and inventory
- **Device control page for GC Plus and Pro Series control products**
- **Import legacy as well as GC Plus and Pro Series configurations simultaneously**
- **Input tracking for GC Plus and Pro Series control products**

Model	Version Description	Part Number
GlobalViewer Enterprise Update	Resource Mngmnt Software Update	29-096-03



GVE Custom Reporting API



Enhanced Event Alert List



Streamlined Room Control Terminal

TOUCHLINK PRO SERIES TOUCHPANELS

TLP Pro 1520MG

15" Wall Mount TouchLink Pro Touchpanel

The Extron TLP Pro 1520MG is a 15" wall mount touchpanel with a capacitive, edge-to-edge glass touchscreen. As with all TouchLink® Pro models, this new, customizable touchpanel features faster processing and more memory. The 1366x768 capacitive touchscreen provides a vibrant image and a more responsive control surface. The TLP Pro 1520MG features video preview inputs that support high resolution HDCP-compliant video from HDMI sources and Extron XTP devices. The touchpanel conveniently receives power and communications over a single Ethernet cable. The TLP Pro 1520MG has a bold, clean, high tech design and features that make it ideal for control applications that require a fully-customizable wall mount touchpanel with a large control surface and multi-source video preview.

FEATURES

- 15" capacitive touchscreen with 1366x768 resolution and 16 million colors
- Faster processing and more memory
- Full-motion video preview and monitoring with HDMI and XTP inputs

- Compatible with all IP Link Pro control processors
- Touchpanel receives power and control over a single Ethernet cable, eliminating the need for a local power supply - Power injector sold separately
- Built-in speakers provide stereo audio
- Light sensor adjusts screen brightness as the ambient room lighting changes
- Configurable red and green status lights indicate a room's availability or call status
- System connection status indicator provides visual feedback if the touchpanel is not communicating with a control processor
- Two high speed USB 2.0 ports
- 3.5mm headphone jack provides local audio out from the touchpanel
- Automatic clock synchronization allows touchpanel to display the accurate time and date
- Energy-saving features:
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel
- Mounts on a wall, lectern, or any flat surface



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Model	Version Description	Part Number
TLP Pro 1520MG	Black - Wall	60-1342-02

TLP Pro 1520TG

15" Tabletop TouchLink Pro Touchpanel

The Extron TLP Pro 1520TG is a 15" tabletop touchpanel with a capacitive, edge-to-edge glass touchscreen. As with all TouchLink® Pro models, this new, customizable touchpanel features faster processing and more memory. The 1366x768 capacitive touchscreen provides a vibrant image and a more responsive control surface. The TLP Pro 1520TG features video preview inputs that support high resolution HDCP-compliant video from HDMI sources and Extron XTP devices. The touchpanel conveniently receives power and communications over a single Ethernet cable. The TLP Pro 1520TG has a bold, clean, high-tech design and features that make it ideal for control applications that require a fully-customizable tabletop touchpanel with a large control surface and multi-source video preview.

FEATURES

- 15" capacitive touchscreen with 1366x768 resolution and 16 million colors
- Faster processing and more memory
- Full-motion video preview and monitoring with HDMI and XTP inputs

- Compatible with all IP Link Pro control processors
- Touchpanel receives power and control over a single Ethernet cable, eliminating the need for a local power supply - Power injector sold separately
- Built-in speakers provide stereo audio
- Light sensor adjusts screen brightness as the ambient room lighting changes
- Configurable red and green status lights indicate a room's availability or call status
- System connection status indicator provides visual feedback if the touchpanel is not communicating with a control processor
- Two high speed USB 2.0 ports
- 3.5mm headphone jack provides local audio out from the touchpanel
- Automatic clock synchronization allows touchpanel to display the accurate time and date
- Energy-saving features:
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel
- Sits on a tabletop or installs on a VESA mount



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Model	Version Description	Part Number
TLP Pro 1520TG	Black - Tabletop & VESA	60-1343-02

For updated product availability, go to www.extron.com

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TOUCHLINK PRO SERIES TOUCHPANELS

TLP Pro 1220MG

12" Wall Mount TouchLink Pro Touchpanel

The Extron TLP Pro 1220MG is a 12" wall mount touchpanel with a capacitive, edge-to-edge glass touchscreen. As with all TouchLink® Pro models, this new, customizable touchpanel features faster processing and more memory. The 1280x800 capacitive touchscreen provides a vibrant image, more responsive control surface, and increased vertical viewing angle. The TLP Pro 1220MG features video preview inputs that support high resolution HDCP-compliant video from HDMI sources and Extron XTP devices. The touchpanel conveniently receives power and communications over a single Ethernet cable. The TLP Pro 1220MG has a bold, high-tech design and features that make it ideal for control applications that require a fully-customizable wall mount touchpanel with a large control surface and multi-source video preview.

FEATURES

- 12" capacitive touchscreen with 1280x800 resolution and 16 million colors
- Faster processing and more memory
- Full-motion video preview and monitoring with HDMI and XTP inputs

- Compatible with all IP Link Pro control processors
- Touchpanel receives power and control over a single Ethernet cable, eliminating the need for a local power supply - Power injector sold separately
- Built-in speakers provide stereo audio
- Light sensor adjusts screen brightness as the ambient room lighting changes
- Configurable red and green status lights indicate a room's availability or call status
- System connection status indicator provides visual feedback if the touchpanel is not communicating with a control processor
- Two high speed USB 2.0 ports
- 3.5mm headphone jack provides local audio out from the touchpanel
- Automatic clock synchronization allows touchpanel to display the accurate time and date
- Energy-saving features:
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel
- Mounts on a wall, lectern, or any flat surface



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Model	Version Description	Part Number
TLP Pro 1220MG	Black - Wall	60-1340-02

TLP Pro 1220TG

12" Tabletop TouchLink Pro Touchpanel

The Extron TLP Pro 1220TG is a 12" tabletop touchpanel with a capacitive, edge-to-edge glass touchscreen. As with all TouchLink® Pro models, this new, customizable touchpanel features faster processing and more memory. The 1280x800 capacitive touchscreen provides a vibrant image, more responsive control surface, and increased vertical viewing angle. The TLP Pro 1220TG features video preview inputs that support high resolution HDCP-compliant video from HDMI sources and Extron XTP devices. The touchpanel conveniently receives power and communications over a single Ethernet cable. The TLP Pro 1220TG has a bold, clean, high-tech design and features that make it ideal for control applications that require a fully-customizable tabletop touchpanel with a large control surface and multi-source video preview.

FEATURES

- 12" capacitive touchscreen with 1280x800 resolution and 16 million colors
- Faster processing and more memory
- Full-motion video preview and monitoring with HDMI and XTP inputs

- Compatible with all IP Link Pro control processors
- Touchpanel receives power and control over a single Ethernet cable, eliminating the need for a local power supply - Power injector sold separately
- Built-in speakers provide stereo audio
- Light sensor adjusts screen brightness as the ambient room lighting changes
- Configurable red and green status lights indicate a room's availability or call status
- System connection status indicator provides visual feedback if the touchpanel is not communicating with a control processor
- Two high speed USB 2.0 ports
- 3.5mm headphone jack provides local audio out from the touchpanel
- Automatic clock synchronization allows touchpanel to display the accurate time and date
- Weighted base allows up to 40° of tilt
- Energy-saving features:
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel



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Model	Version Description	Part Number
TLP Pro 1220TG	Black - Tabletop & VESA	60-1341-02

TOUCHLINK PRO SERIES TOUCHPANELS

TLP Pro 320C

3.5" Cable Cubby TouchLink Pro Touchpanel

The Extron TLP Pro 320C is a 3.5" Cable Cubby® touchpanel with a flip-up, LCD touchscreen. As with all TouchLink® Pro models, this new customizable touchpanel features faster processing and more memory. Power over Ethernet PoE allows the touchpanel to receive power and communications over a single Ethernet cable. The TLP Pro 320C is built into an all metal, Cable Cubby enclosure that can be mounted securely into a tabletop, lectern, or other flat surface. It is ideal for any AV application requiring a compact, Cable Cubby touchpanel with a fully customizable interface.

FEATURES

- 3.5" flip-up LCD touchscreen with 320x240 resolution and 18-bit color depth
- Faster processing and more memory
- Ten customizable backlit buttons

- Compatible with all IP Link Pro control processors
- Power over Ethernet allows the touchpanel to receive power and control over a single Ethernet cable, eliminating the need for a local power supply - PoE injector sold separately
- Built-in speaker with improved audio performance
- Light sensor adjusts screen brightness as the ambient room lighting changes
- Cable Cubby design offers easy access to AV, data, and power connections
- AC power modules available for US, Europe, and other major world markets
- AV connectivity options
- Convenient LED lighting illuminates power and AV Cable Cubby area
- Integrated lid switch automatically wakes the touchpanel when opened and can trigger any other system function

Model	Version Description	Part Number
TLP Pro 320C	Black - w/US AC Module.....	60-1452-020A
TLP Pro 320C	Black - w/o AC Module	60-1452-0200
TLP Pro 320C	Brushed Alum - w/o AC Module.....	60-1452-0210



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TLP Pro 320M

3.5" Wall Mount TouchLink Pro Touchpanel

The Extron TLP Pro 320M is a 3.5" wall mount touchpanel with an LCD touchscreen. As with all TouchLink® Pro models, this new customizable touchpanel features faster processing and more memory. Power over Ethernet PoE allows the touchpanel to receive power and communications over a single Ethernet cable. The TLP Pro 320M features a sleek, rounded bezel that compliments the aesthetics in any AV environment. It is ideal for AV applications requiring a compact, wall-mountable touchpanel with a fully customizable interface.

FEATURES

- 3.5" LCD touchscreen with 320x240 resolution and 18-bit color depth
- Faster processing and more memory
- Eight customizable backlit buttons and a user-friendly volume knob
- Compatible with all IP Link Pro control processors

- Power over Ethernet allows the touchpanel to receive power and control over a single Ethernet cable, eliminating the need for a local power supply - PoE injector sold separately
- Built-in speaker with improved audio performance
- Light sensor adjusts screen brightness as the ambient room lighting changes
- Configurable red and green status lights indicate a room's availability or call status
- System connection status indicator provides visual feedback if the touchpanel is not communicating with a control processor
- Automatic clock synchronization allows touchpanel to display the accurate time and date
- Energy-saving features:
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel
- Contemporary design that complements the aesthetics of any environment

Model	Version Description	Part Number
TLP Pro 320M	Black - Wall	60-1451-02
TLP Pro 320M	White - Wall	60-1451-03



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TOUCHLINK PRO CONTROLLER

TLC Pro 521M

5" Wall Mount TouchLink Pro Controller

The Extron TLC Pro 521M is a convenient, all-in-one 5" wall mount touchpanel with a built-in control processor. This easy to use, fully-configurable TouchLink controller combines a vibrant capacitive touchscreen with powerful AV system control and enhanced security. The TLC Pro 521M borrows the sleek, modern design of our TLP Pro 520M TouchLink Pro Touchpanel, producing a feature-packed touchscreen in a compact form factor. For ease of integration, Power over Ethernet PoE allows the touchpanel to receive power and communications over a single Ethernet cable. The TLC Pro 521M is ideal for classrooms, boardrooms, or any presentation environment requiring the visual appeal of a touchpanel and the flexible control options found within MediaLink Plus controllers.

FEATURES

- 5" capacitive touchscreen with 800x480 resolution and 16 million colors
- Power over Ethernet allows the controller to receive power and control over a single Ethernet cable, eliminating the need for a local power supply - PoE injector sold separately

- Built-in control processor:
 - One bidirectional RS-232 port
 - Two relays for controlling room functions
 - One IR/Serial ports for one-way control of external devices
 - One digital input
- Supports Ethernet-controllable devices:
 - Up to 4 devices with GC Plus
 - Up to 8 devices with GC Pro
- Removable captive screw connectors
- Light sensor adjusts screen brightness as the ambient room lighting changes
- Configurable red and green status lights
- Built-in speaker with improved audio performance
- Energy-saving features:
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel
- Contemporary design that complements the aesthetics of any environment
- Fully-configurable using Extron control system software



Model	Version Description	Part Number
TLC Pro 521M	Wall Mount Controller.....	60-1284-02

TOUCHLINK PRO SERIES

CCI Pro 700

TouchLink Pro Conference and Collaboration Control Interface

The Extron CCI Pro 700 is the industry's first control system user interface optimized for conferencing, collaboration, and AV control. It supports many of the critical functions needed in a conferencing environment, while providing a powerful and intuitive room control user interface. The compact CCI Pro 700 includes a 3.5" color information display, a numeric keypad, and backlit buttons. The information display may be used to show contact information, call directories, and call status. Buttons directly below the display may be used to navigate custom lists and menus. The information display is customized using GUI Designer, and all buttons can be configured and customized using Global Configurator Plus and Pro, and Custom Button Builder. This flexible design affords countless conferencing and control possibilities.

FEATURES

- Control conference systems and AV devices from a single, easy-to-use interface
- Familiar and intuitive design
- Works seamlessly with virtually any audio, video, or web conferencing solution
- Compatible with all IP Link Pro control processors

- Customizable 3.5" color display with context-dependent buttons
- Six backlit soft-touch function buttons for AV device control or call presets
- Dual color call status indicator
- Configurable buttons for critical conference functions
- Power over Ethernet allows the interface to receive power and control over a single Ethernet cable, eliminating the need for a local power supply - PoE injector sold separately
- Light sensor adjusts screen and button brightness as the ambient room lighting changes
- Designed for use on a conference table, desk or any flat surface
- Energy-saving features:
 - Adjustable sleep timer puts touchpanel into sleep mode
 - Motion detector wakes touchpanel
- Fully-configurable using Extron control system software
- Convenient information tray for easy access to reminders or system information
- Meets or exceeds Section 508 accessibility standards



Model	Version Description	Part Number
CCI Pro 700	Conferencing Control Interface.....	60-1206-02

MEDIALINK PLUS SERIES

MLC Plus 50

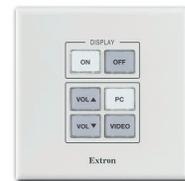
MediaLink Plus Controller

The MLC Plus 50 is an easy-to-use Ethernet controller designed for handling common AV functions, such as display on/off, input switching, volume control, and Ethernet control of AV devices. As with all controllers in the MediaLink Plus Series, it has more features and enhanced security. The faceplate hides the mounting screws and, combined with its rounded corners and beveled edges, gives the controller a refined, sleek appearance. PoE allows the MLC Plus 50 to receive power and communications over a single Ethernet cable. It mounts in a two-gang junction box, and includes black and white faceplates.

FEATURES

- Manage, monitor, and control AV devices using a standard Ethernet network
- Fully configurable using Global Configurator Plus or Global Configurator Professional
- One bidirectional RS-232 port
- Two relays for controlling room functions
- One IR port for connecting up to two emitters
- One digital input
- Supports Power over Ethernet
- Supports Ethernet-controllable devices
- Dual color, field-labelable, backlit buttons

Model	Version Description	Part Number
MLC Plus 50	White and Black Faceplates, 2-Gang	60-1468-03



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MLC Plus 100

MediaLink Plus Controller

The MLC Plus 100 is an easy-to-use Ethernet controller designed for handling common AV functions such as power, input switching, volume control, and Ethernet control of AV devices. The faceplate hides the mounting screws and, combined with its rounded corners and beveled edges, gives the controller a refined, stylish appearance. Along with the six customizable and configurable buttons, the MLC Plus 100 features a remote volume control port for Extron MPA Series and select XTRA™ Series amplifiers. Power over Ethernet - PoE allows the MLC Plus 100 to receive power and communications over a single Ethernet cable. It mounts in a two-gang junction box, and includes black and white faceplates.

FEATURES

- Manage, monitor, and control AV devices using a standard Ethernet network
- Fully configurable using Global Configurator Plus or Global Configurator Professional
- Two bidirectional RS-232 ports
- Two relays for controlling room functions
- One IR port for connecting up to two emitters
- One digital input
- Remote volume control port for Extron MPA Series and select XTRA™ Series amplifiers
- Supports Power over Ethernet
- Supports Ethernet-controllable devices:
- Dual color, field-labelable, backlit buttons

Model	Version Description	Part Number
MLC Plus 100	White and Black Faceplates, 2-Gang	60-1469-03
MLC Plus 100 AAP	White and Black Faceplates, 4-Gang AAP	60-1540-02



MLC Plus 100



MLC Plus 100 AAP



NOW SHIPPING

MLC Plus 200

MediaLink Plus Controller

The MLC Plus 200 is an easy-to-use Ethernet controller designed for handling common AV functions such as display on/off, input switching, volume control, and Ethernet control of AV devices. The faceplate hides the mounting screws and, combined with its rounded corners and beveled edges, gives the controller a refined, stylish appearance. Along with the ten customizable and configurable buttons, the MLC Plus 200 features a remote volume control port for Extron MPA Series and select XTRA™ Series amplifiers. Power over Ethernet - PoE allows the MLC Plus 200 to receive power and communications over a single Ethernet cable. It mounts in a three-gang junction box, and includes black and white faceplates.

FEATURES

- Manage, monitor, and control AV devices using a standard Ethernet network
- Fully configurable using Global Configurator Plus or Global Configurator Professional
- Two bidirectional RS-232 ports
- Two relays for controlling room functions
- One IR port for connecting up to two emitters
- One digital input
- Remote volume control port for Extron MPA Series and select XTRA™ Series amplifiers
- Supports Power over Ethernet
- Supports Ethernet-controllable devices:
- Dual color, field-labelable, backlit buttons

Model	Version Description	Part Number
MLC Plus 200	White and Black Faceplates, 3-Gang	60-1470-02
MLC Plus 200 AAP	White and Black Faceplates, 5-Gang AAP	60-1541-02



MLC Plus 200



MLC Plus 200 AAP



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CONTROL APP

Extron Control iPad Control App for TouchLink and MediaLink

Extron Control is an easy-to-use AV control system app that gives users complete access to Extron control systems directly from an iPad. After a quick initial setup, the iPad connects to the desired room, allowing for a seamless, highly-responsive control experience. The app automatically loads the user interfaces present on any Extron control product without a lengthy setup and customization process. The familiar interfaces emulate the TouchLink touchpanel or MediaLink controllers in your room, and all button presses are kept in sync between the app and your Extron control devices. Extron Control is available for immediate download from the iTunes App Store.

FEATURES

- Provides a convenient point of control for Extron control systems
- Supports all TouchLink, TouchLink Pro touchpanels and Ethernet-enabled MediaLink, MediaLink Plus controllers
- Familiar user interface provides the same experience as the touchpanel or controller
- Supports Extron LinkLicense
- Room Manager allows users to easily add touchpanels or controllers and customize room lists
- Quickly switch between rooms with a single tap on the screen
- Button tracking allows iPad and touchpanel or controller to stay in sync
- Provides real-time status and remote control of multiple rooms for troubleshooting and management
- Wireless control using a Wi-Fi network allows users to move freely around a room and between rooms



NOW AVAILABLE

Model	Version Description	Part Number
Extron Control	iPad App for Extron Control Systems	79-559-01

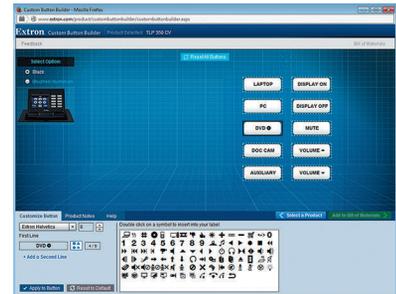
CUSTOM BUTTON BUILDER

Custom Button Builder Create Buttons with Just a Few Clicks

The Extron Custom Button Builder provides convenient and simple customization of soft-touch, backlit buttons for Extron MLC 60 Series controllers and TLP 350 touchpanels. This dynamic online tool features a graphical representation of the product's button layout and a button configurator pane with many options for easy edits.

FEATURES

- Customize text for single or dual line buttons and easily change font size while monitoring character count
- Easily add symbols to buttons
- View, add, and remove products from the Bill of Materials
- When you've finished building your buttons, the Success Screen provides a quick summary with a part number



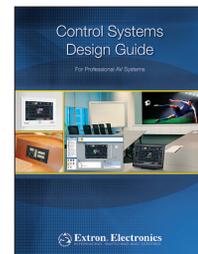
NOW AVAILABLE

DESIGN AND EDUCATION RESOURCES

Control Systems Design Guide - Second Edition AV Control System Design Strategies

The Control Systems Design Guide - Second Edition provides an insider's look at the best methodologies for Extron Pro Series AV system design. It focuses on educating AV system designers, integrators and consultants on the importance of designing for control, and helps AV professionals develop the required expertise to design functional, highly-effective, and intuitive control systems. Inside you'll also find sample AV system designs that emphasize the unique challenges in a broad range of applications and illustrate the powerful configuration capabilities inherent in the Pro Series control products and GC Plus and GC Pro software.

Call your Extron Representative for a copy.



STREAMING AV



FlexOS

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SMP 351
H.264 Streaming Media Processor

The SMP 351 is a high performance streaming and recording processor for capturing and distributing AV sources and presentations as live streaming or recorded media. Featuring up to five inputs, the SMP 351 allows users to create high-impact presentations by combining two high resolution signals, a background image, and metadata into dynamic layouts. With Extron's FlexOS operating system, the SMP 351 is highly adaptable to new requirements using installable control applications. A comprehensive combination of signal processing, streaming, recording, and control features make the SMP 351 integration-friendly, easy to control and operate. Requiring no licensing fees, the SMP 351 has a low cost of ownership making it a cost-effective solution for delivering presentations to a wider audience.

High Resolution AV Processing

The SMP 351 combines two high resolution video signals selected from up to five available sources with mixed audio, a PNG background image, and metadata into a single blended output. High quality scaling and two-window processing supports flexible source presentation in picture-in-picture or picture-by-picture arrangements at resolutions up to 1080p/30. Select from up to sixteen customizable layouts from the front panel or an external control system.

Flexible Recording and Streaming

The SMP 351 can record and stream simultaneously. It creates MP4 (M4V) media files that can be saved to the internal solid state storage, an external USB drive, or a defined network storage directory. The SMP 351 can stream at two resolutions concurrently, supporting overflow or streaming distribution applications using high to medium bit rates, or confidence viewing using low bit rates. A range of streaming protocols are available to support different streaming configurations and network conditions.

Integration for Presentation and Recording Workflows

The SMP 351 offers advanced signal processing and control features, which simplify management in presentation systems and recording workflows. Schedules can be entered manually or automatically updated using the iCalendar file format. Encoding and recording presets simplify configuration and management from a control system. An HDMI output presents a preview of the blended source layout with audio that is streamed and recorded.

Content Management and Playback Options

The SMP 351 produces MP4 (M4V) media files, which are compatible with virtually any media player software and popular content management systems. It integrates directly with the Opencast Matterhorn lecture capture management system, and process impromptu recording sessions using Extron's Streaming Content Manager – SCM software.

FEATURES

- Process two high resolution AV signals from up to five available input connections
- Stream and record simultaneously
- High quality scaling with flexible two-window management
- Produces MP4 media files that are compatible with virtually any media player
- Flexible I/O ports for advanced AV system management
- License-free operation contributes to a low cost of ownership
- Save recorded media to the internal solid state drive, an external USB drive, or a defined network storage directory
- **NEW** New models available with 400 Gigabytes of internal solid state storage to allow more time between content transfers
- Record and stream at resolutions from 480p to 1080p/30
- Supports HDMI, component HD, composite, and optional 3G-SDI signal formats
- Easy to configure and operate using the front panel, embedded web page, or external control system
- Stream at high and low resolutions and bit rates concurrently supporting overflow and confidence viewing applications
- Extron FlexOS embedded operating system provides a platform that is highly-adaptable to new requirements
- Automate SMP 351 operation using control ports and Extron FlexOS applications
- Manage AV recordings using Extron Streaming Content Manager – SCM
- Mark chapters and events during recording sessions
- Produces JPEG thumbnail images for use by the Extron Media Player - EMP
- HDMI preview output signal presents a confidence view of the blended source layout with mixed audio
- HDMI-embedded stereo or analog stereo audio input and output
- Audio mixing and DSP functionality
- Integrates directly with the Opencast Matterhorn lecture capture content management system
- SMP 351 recordings are compatible with third party content management systems including Kaltura, iTunes-U, Blackboard LMS, SharePoint, CaptionSync, YouTube, Moodle, and RSS feed
- Schedule recording and streaming events using the iCalendar file format
- RS-232 and digital I/O control ports interface with control systems, sensors, and external devices

Model	Version Description	Part Number
SMP 351	Standard Version - 80 GB SSD	60-1324-01
SMP 351	Standard Version - 400 GB SSD	60-1324-11
SMP 351 3G-SDI	with 3G-SDI Input - 80 GB SSD	60-1324-02
SMP 351 3G SDI	with 3G-SDI Input - 400 GB SSD	60-1324-12

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STREAMING AV

SMD 202

H.264 Streaming Media Player and Decoder

The Extron SMD 202 is a compact, high performance media player and live stream decoder used in H.264 streaming applications. It provides the flexibility to present a locally connected AV signal, decode a live streaming source, or play back media files from internal memory, removable SD card, local USB, or network storage. The SMD 202 supports a wide range of media file container formats and streaming protocols, making it adaptable for use with a variety of encoded media. Advanced signal processing, scaling, and aspect ratio management supply high quality signals to AV displays. An intuitive, interactive on-screen menu makes setup and source selection using front panel buttons or the optional handheld IR remote control easy. Designed for pro AV applications, the SMD 202 can be controlled using Ethernet, RS-232, IR, or wired IR.

FEATURES

- Plays back media files from internal memory, removable SD card, USB storage, or network shares
- Decodes live H.264 streams using a variety of streaming protocols
- Local HDMI input with embedded stereo or analog stereo audio

- Selectable output resolutions from 640x480 to 1920x1200 including 1080p/60
- Supports streaming resolutions from 480x320 up to 1080p/60
- Multi-language, interactive on-screen display for setup and source selection
- Control from front panel, IR remote, wired IR, RS-232, Ethernet, or embedded Web interface
- On-screen presentation of streaming source information
- Play back media files in a loop or as part of a playlist
- Programmed channel lists and intelligent stream identification
- Seamless media file transitions and looped playback
- Elegant still frame transition effects
- Play, pause, stop, and seek transport control
- Interactive On-Screen Display
- Optional SMD 202 Remote IR remote control
- HDCP-compliant HDMI input and output signal support with Visual Confirmation
- Selectable audio output format: HDMI-embedded stereo audio or analog stereo audio
- Ethernet to RS-232 pass through control
- Compatible with unicast and multicast push, or unicast and multicast pull streaming applications



Model	Version Description	Part Number
SMD 202	H.264 Player and Decoder.....	60-1306-01
SMD 202 Remote	Handheld IR Remote Control for SMD 202.....	70-1059-01

VIDEOWALL PROCESSORS

Quantum Connect 82 and Quantum Connect 84
HDCP-Compliant Videowall Processors

The Extron Quantum® Connect 82 and Quantum Connect 84 are HDCP-compliant videowall processors that deliver the same high quality video scaling, windowing capability, and reliable, real-time performance as Extron's flagship Quantum Elite processors. Quantum Connect is ideal for videowalls with two to four displays, delivering powerful, highly versatile video processing with flexible windowing capabilities. It features high performance video scaling technology capable of producing superior quality upscaled and downscaled images. Quantum Connect processors are available in two popular configurations featuring eight HDMI inputs and two or four HDMI outputs. They are ideal for crafting fully customized, professional quality videowall presentations in public spaces, digital signage in retail environments, and control rooms.

FEATURES

- Videowall processing for videowalls with up to four displays
- HDCP-compliant HDMI inputs and outputs support resolutions up to 1920x1200 and 1080p/60
- High speed, dedicated video/graphic bus delivers real-time performance
- High quality image upscaling and downscaling
- Bezel compensation for flat-panel displays
- Quantum Connect 84 integrates easily into environments that incorporate a 4K display such as lobbies, auditoriums, and simulation
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- Reliable connectivity for HDMI cables
- Easy-to-use configuration and control software
- Optimal reliability for critical environments



Quantum Connect 82



Quantum Connect 84

4K UHD

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All-New HDMI Configurations
with Lower Pricing

Model	Version Description	Part Number
Quantum Connect 82	8 Input, 2 Output Videowall Processor.....	60-1114-11
Quantum Connect 84	8 Input, 4 Output Videowall Processor.....	60-1114-12

DANTE AUDIO PRODUCTS

NetPA 502 AT and NetPA 1001-70V AT
Two Channel and Mono 70 V Audio Power Amplifiers with Dante

The Extron NetPA 502 AT and NetPA 1001-70V AT are half rack 1U, convection cooled power amplifiers featuring Dante™ digital audio networking. They deliver two channels of 50 watts into 4 ohms, or a single channel of 100 watts at 70 volts. NetPA™ amplifiers receive audio from Dante-enabled devices over a standard local area network, allowing for decentralized distribution of audio throughout a building. In addition to amplifying incoming Dante audio, NetPA amplifiers feature line level outputs that can simultaneously feed an additional speaker zone or audio system. These ENERGY STAR® qualified amplifiers feature an Extron exclusive, highly efficient, advanced Class D amplifier design. They also include patented CDRS™ - Class D Ripple Suppression that provides improved signal fidelity over conventional Class D amplifiers.

- FEATURES**
- Receives input signals via the Dante audio network
 - 100 watts rms output power:
 NetPA 502 AT - 2 x 50 watts @ 4 ohms or 2 x 25 watts @ 8 ohms
 NetPA 1001-70V AT - 1 x 100 watts @ 70 volts
 - ENERGY STAR® qualified amplifier
 - Dante audio networking provides a wide range of expansion capabilities
 - Dante audio to line level outputs
 - Professional grade signal-to-noise and THD+N performance
 - Extron Patented CDRS - Class D Ripple Suppression
 - Convection cooled, fanless operation
 - Ultra low inrush current – no need for power sequencing



NetPA 502 AT



NetPA 1001-70V AT



NOW SHIPPING

Model	Version Description	Part Number
NetPA 502 AT	Two Channel Amp with Dante - 50 Watts/Ch	60-1500-01
NetPA 1001-70V AT	70 V Mono Amp with Dante - 100 Watts	60-1501-01

AXP 64 C AT
6 Input, 4 Output Audio Expansion Processor with AEC and Dante

The Extron AXP 64 C AT is an audio expansion processor with six mic/line inputs and four line outputs for remote connectivity to a Dante™-enabled audio system. It is used to place six mic/line sources onto a Dante audio network, and route any four Dante channels from the network to an amplifier or other destination. The AXP 64 C AT features Extron ProDSP™ with gain, filtering, and dynamics processing for all inputs and outputs. Four of the inputs also include AEC, 48 volt phantom power, and dedicated control ports for mic control. FlexInputs offer the additional capability to process Dante channels in place of local analog inputs 1 - 4. A single Ethernet cable from one AXP 64 C AT, or several linked units, to a central equipment rack greatly reduces the effort and expense of pulling one cable for each endpoint.

- Four inputs with FlexInput capability to select between analog or Dante inputs
- Four line outputs receive audio from a Dante network
- Dante audio networking provides a wide range of expansion capabilities
- Built-in four-port Gigabit switch
- One digital input and dual digital outputs at mic/line inputs 1 - 4 for control
- Compact 1U, half rack width metal enclosure
- ProDSP™ 32/64-bit floating point signal processing
- Studio grade 24-bit/48 kHz analog-to-digital and digital-to-analog converters
- Low latency DSP processing
- DSP Configurator™ Software
- Intuitive Graphical User Environment
- Flexible pre- and post-processing input signal routing
- Flexible control options
- Building Blocks processor settings



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- FEATURES**
- Six mic/line level inputs for transmitting audio to a Dante network
 - Four independent channels of AEC - acoustic echo cancellation

Model	Version Description	Part Number
AXP 64 C AT	6 In, 4 Out Expansion Processor	60-1499-01

For updated product availability, go to www.extron.com

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DANTE AUDIO PRODUCTS

AXI 22 AT D

2 Input, 2 Output Audio Expansion Interface with Dante - Decora Wallplate

The Extron AXI 22 AT D is a single-gang Decora®-style audio interface for integrating two mic/line sources onto a Dante™-enabled audio system. It features two XLR audio inputs and switchable 48 volt phantom power for connecting and powering condenser microphones, plus gain controls for each input. The AXI 22 AT D also features two line outputs on the back for routing any two Dante channels from the network to an amplifier, or connecting into an optional secondary wallplate with two XLR outputs or RCA outputs. The AXI 22 AT D interfaces with any Dante-equipped audio processor, such as an Extron DMP 128 AT, over a standard local area network, and can be powered through PoE. This allows a single network cable connection for bidirectional audio and power from a central equipment rack.

FEATURES

- Two mic/line inputs on XLR connectors for transmitting audio to a Dante™ network
- Two line outputs on a rear panel captive screw connector receive audio from a Dante network
- Dante audio networking provides a wide range of expansion capabilities
- Studio grade 24-bit/48 kHz analog-to-digital and digital-to-analog converters
- Input gain and phantom power controls located behind cover plate
- XLR audio inputs for direct microphone connection
- Optional Extron WPD 102 XLRM and WPD 102 RCA secondary wallplates with two XLR or RCA outputs
- Power over Ethernet allows the AXI 22 AT D to receive power over a single Ethernet cable, eliminating the need for a local power supply
- Mounts in an included single-gang Decora®-style wallplate
- Highly reliable, energy-efficient external universal power supply included, replacement part #70-775-01



Model	Version Description	Part Number
AXI 22 AT D	2 In, 2 Out Expansion Interface - Decora - Black	60-1517-02
AXI 22 AT D	2 In, 2 Out Expansion Interface - Decora - White	60-1517-03

WPD 102 Series

Pass-Through Wallplates with XLR or RCA Connectors - Decora

The Extron WPD 102 XLRM and WPD 102 RCA are single-gang Decora®-style modules with two male XLR audio connectors or two female RCA audio connectors. They are designed to complement the Extron AXI 22 AT D single-gang audio expansion interface with Dante™, providing a set of XLR or RCA outputs for a two-gang wall installation. The WPD 102 XLRM and WPD 102 RCA each include a 5" pigtail with a 5-pole captive screw plug. In addition to the AXI 22 AT D, they can be used to provide local, wall-mounted connectivity for any audio system.

FEATURES

- Designed to add XLR or RCA outputs for the Extron AXI 22 AT D single-gang audio expansion interface with Dante™
- Two male XLR audio connectors - WPD 102 XLRM
- Two female RCA audio connectors - WPD 102 RCA
- 5" pigtail with a 5-pole captive screw plug
- Can be used to provide local wall, floor box, or furniture-mounted connectivity for any audio system
- Mounts in an included single-gang Decora®-style wallplate



WPD 102 XLRM



WPD 102 RCA

Model	Version Description	Part Number
WPD 102 XLRM	Two XLR 3-Pin Males on Decora Wallplate, Black	70-1103-02
WPD 102 XLRM	Two XLR 3-Pin Males on Decora Wallplate, White	70-1103-03
WPD 102 RCA	Two RCA Females on Decora Wallplate, Black	70-1104-02
WPD 102 RCA	Two RCA Females on Decora Wallplate, White	70-1104-03

AUDIO PRODUCTS

XPA 1002-70V and XPA 1002-100V
Two Channel High Impedance Amplifiers – 100 Watts Per Channel

The Extron XTRA™ Series XPA 1002-70V and XPA 1002-100V are half rack 1U, convection cooled power amplifiers delivering two channels of 100 watts per channel for 70 volt or 100 volt high impedance speaker systems in voice reinforcement and distributed audio applications. These professional grade amplifiers feature a 100 dB signal-to-noise ratio with 0.1% THD+N. The XPA 1002-70V and XPA 1002-100V are ENERGY STAR® qualified amplifiers with an Extron exclusive, highly efficient, advanced Class D amplifier design. They also feature patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifiers. The XPA 1002-70V and XPA 1002-100V are housed in a half rack width metal enclosure, conserving rack space and weighing only 2.5 lbs (1.1 kg). The Extron exclusive, high efficiency design generates very little heat and allows the amplifier to be convection cooled.

FEATURES

- 200 watts rms output power:
 XPA 1002-70V - 2 x 100 watts @ 70 volts
 XPA 1002-100V - 2 x 100 watts @ 100 volts
- ENERGY STAR® qualified amplifier
- Professional grade signal-to-noise and THD+N performance
- Extron Patented CDRS™ - Class D Ripple Suppression
- Convection cooled, fanless operation
- Ultra low inrush current - no need for power sequencing
- Power factor correction - removes harmonic content on AC line
- Rack-mountable 1U, half rack width enclosure
- UL 2043 plenum rated when used with optional Flexible Conduit Adapter Kit
- Highly reliable, energy-efficient internal universal power supply



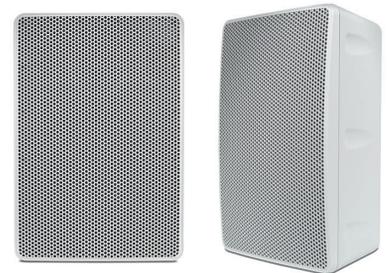
Learn more about cost saving XTRA™ technologies
www.extron.com/xtrapaper

Model	Version Description	Part Number
XPA 1002-70V	100 Watts Per Ch @ 70 V	60-1302-01
XPA 1002-100V	100 Watts Per Ch @ 100 V	60-1302-11

SM 28
SpeedMount Two-Way Surface Mount Speakers with 8" Woofer

The Extron SM 28 SpeedMount® Surface Mount Speaker is a two-way speaker with a patent pending, concealed wall mounting system. It features an 8" (20.3 cm) woofer with dual tuned ports and a 1.1" (2.8 cm) tweeter. The SM 28 provides a frequency range from 59 Hz to 22 kHz, and a power rating of 90 watts continuous pink noise, 180 watts continuous program capacity. The Extron-exclusive mounting system is designed to accommodate division-of-labor installations and save costs. The SM 28 is available as an 8 ohm model, and an SM 28T version which can operate in 8 ohm direct as well as 70 volt and 100 volt modes. The SM 28T features a six-position power tap selector for up to 64 watts, which can conveniently be accessed through the grille from outside the speaker.

- 8" (20.3 cm) long-throw woofer with dual tuned bass reflex ports
- Two versions available for low impedance or 70/100 volt systems:
 - 8 ohm direct operation only
 - 8 ohm direct and 70/100 volt operation
- Convenient six-position, through-the-grille power tap selector on the SM 28T:
 - 8 ohm direct
 - 70 volt: 64, 32, 16, and 8 watt selectable
 - 100 volt: 64, 32, and 16 watt selectable
 - Off
- Optional yoke mount allows 180° of speaker pivot in 10° detented steps, part #70-994-02 and 70-994-03
- Frequency range: 59 Hz to 22 kHz
- 90 watts continuous pink noise, 180 watts continuous program
- Internal driver overload protection
- Hidden locking speaker release mechanism
- Black or white high-impact enclosure
- 5 year parts and labor warranty



SPEED MOUNT

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FEATURES

- Patent pending, concealed mounting system
- Includes 0° mounting plate and 10° mounting adapter
- Designed to accommodate division-of-labor installations and save costs
- 1.1" (2.8 cm) silk dome tweeter

Model	Version Description	Part Number
SM 28	8 ohm - Black, Pair	60-1309-02
SM 28	8 ohm - White, Pair	60-1309-03
SM 28T	Transformer - Black, Pair	60-1309-12
SM 28T	Transformer - White, Pair	60-1309-13
Yoke Mount	Yoke Mount for SM 28, Pair - Black	70-994-02
Yoke Mount	Yoke Mount for SM 28, Pair - White	70-994-03

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AUDIO PRODUCTS

CS 123T

Full-Range 70/100 V SpeedMount Ceiling Speaker System

The Extron CS 123T SpeedMount® Ceiling Speaker System is a patented low profile, plenum rated two-piece speaker system. It provides an extremely wide 165° conical dispersion for flexibility in speaker spacing. The system is designed for applications where high intelligibility and maximum coverage is desired in paging applications and low ceiling installations. The innovative system consists of the CS 120P plenum rated enclosure and a CS 3T full-range speaker cartridge. The enclosure installs quickly into 2' x 2' (61 cm x 61 cm) or 600 mm x 600 mm suspended ceilings. The speaker cartridge features a 3" (7.6 cm) full-range driver, and can be used in 70/100 volt or 8 ohm operation. The CS 123T is available as a complete assembly, or the CS 120P and CS 3T can be purchased separately to accommodate division-of-labor installations. This unique speaker design greatly simplifies ceiling speaker installation and delivers significant time and cost savings.

FEATURES

- Patented two-piece speaker system for suspended ceilings in division-of-labor installations
- Enclosure and speaker cartridge can be installed separately by low-voltage and AV system contractors

- Provides significant time and cost savings in ceiling speaker installation
- 3" (7.6 cm) full-range driver
- 165° conical dispersion provides wide coverage and allows for flexible speaker placement
- 8 ohm direct or 70/100 volt operation on a 6 position, behind-the-grille selector
- 16 watts continuous pink noise, 32 watts continuous program
- Internal driver overload protection
- Thin bezel and magnetically attached grille
- Grille and bezel are available in white only and may be painted to match environment
- Spring-loaded locking arms on the CS 3T for quick installation
- Fast-installing enclosure speeds installation; no tile bridge necessary
- UL 2043 plenum rated enclosure
- Low profile, 5" (12.7 cm) deep enclosure for plenum environments
- Compatible with US 2' x 2' ceiling grids and metric 600 mm x 600 mm ceiling grids
- Reinforced enclosure minimizes acoustical vibrations
- 5 year parts and labor warranty



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Model	Version Description	Part Number
CS 123T	Full-Range SpeedMount Speaker System, Pair	42-242-03
CS 3T	Full-Range, Open Back Speaker, Transformer, Pair . . .	60-1463-03
CS 120P	SpeedMount Enclosure, Pair	70-976-01

EXTENDERS & LINE DRIVERS

UHD4K 101

HDMI Cable Equalizer for 4K Sources

The Extron UHD4K 101 is a one input, one output HDMI cable equalizer for 4K video signals. It attaches to the end of a long HDMI cable run, and equalizes 4K signals up to 50 feet (15 meters) when used with Extron HDMI Pro Series cables. The UHD4K 101 also provides active equalization to ensure optimal image quality with video signals up to 4096x2160 @ 30 Hz and 1080p/60 with 12-bit Deep Color. The UHD4K 101 can be powered by the connected HDMI source or the included external power supply, making it ideal for use in permanent installations as well as temporary applications.

FEATURES

- Extends 4K video signals up to 50 feet (15 meters) when used with Extron HDMI Pro Series cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, HD lossless audio formats, and CEC
- HDCP compliant
- Automatic input cable equalization
- Can be powered directly from the HDMI source device



Model	Version Description	Part Number
UHD4K 101	4K HDMI Cable Equalizer	60-1514-01

DISTRIBUTION AMPLIFIERS

DA2 HD 4K

4K HDMI Distribution Amplifier

The Extron DA2 HD 4K is a one input, two output HDMI distribution amplifier for 4K signals. It supports data rates up to 10.2 Gbps, including computer and video resolutions up to 4096x2160 and 1080p/60 with Deep Color, 3D, Lip Sync, and HD lossless audio formats. The DA2 HD 4K features automatic input cable equalization, automatic color bit depth management, selectable output muting, plus EDID Minder which maintains continuous EDID communication between connected devices, and Key Minder which continuously authenticates HDCP encryption to ensure simultaneous distribution of source content. The DA2 HD 4K distribution amplifier is ideal for applications that require the distribution of a 4K HDMI source signal to two displays.

FEATURES

- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats
- EDID Minder® automatically manages EDID communication between connected devices
- Key Minder® continuously verifies HDCP compliance
- Automatic input cable equalization to 50 feet when used with Extron HDMI Pro Series cable
- Automatic color bit depth management
- Output muting via RS-232 or USB port
- Easy setup and commissioning with Extron's PCS – Product Configuration Software
- HDCP authentication and signal presence LED indicators



Model	Version Description	Part Number
DA2 HD 4K	Two Output 4K HDMI	60-1480-01

MATRIX SWITCHERS & SWITCHERS

DXP HD 4K Series

4K HDMI Matrix Switchers with Audio De-Embedding

The Extron DXP HD 4K Series are high performance HDMI matrix switchers for computer and video resolutions up to 4K, including 1080p/60 with Deep Color. They support HDMI specifications, including data rates to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats. DXP HD 4K Series matrix switchers incorporate Extron technologies such as SpeedSwitch®, EDID Minder®, and Key Minder® as well as HDMI equalization and output regeneration to ensure reliable system operation. In addition, digital audio can be de-embedded from any input and assigned to digital or analog stereo outputs for ease of integration. Available in fixed I/O sizes from 4x4 to 16x16, the DXP HD 4K Series is ideal for applications that require reliable, high performance switching of HDMI video and audio signals between multiple sources and displays.

FEATURES

- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- HDMI audio de-embedding with digital S/PDIF and analog stereo audio outputs
- SpeedSwitch® Technology provides exceptional switching speed for HDCP-encrypted content
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages EDID communication between connected devices
- View I/O mode
- Ethernet monitoring and control
- Rack-mountable full rack width metal enclosure:
1U - 4x4, 8x4, and 8x8
2U - 16x8 and 16x16



DXP 88 HD 4K



DXP 1616 HD 4K



Model	Version Description	Part Number
DXP 44 HD 4K	4x4 HDMI with 2 Audio Outputs	60-1493-01
DXP 84 HD 4K	8x4 HDMI with 2 Audio Outputs	60-1494-01
DXP 88 HD 4K	8x8 HDMI with 2 Audio Outputs	60-1495-01
DXP 168 HD 4K	16x8 HDMI with 4 Audio Outputs	60-1496-01
DXP 1616 HD 4K	16x16 HDMI with 4 Audio Outputs	60-1497-01

For updated product availability, go to www.extron.com

FIBER OPTICS

FOX II DP 4K

Fiber Optic Extender for DisplayPort, Multi-Channel Audio, RS-232, and IR

The Extron FOX II DP 4K Fiber Optic Extender provides long haul extension of DisplayPort video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling. Engineered with uncompromising quality and proven performance, it uses Extron all-digital technology to deliver lossless DisplayPort computer and video images up to 4096x2160, including 1080p/60 with Deep Color. This HDCP-compliant transmitter and receiver set brings new features to the FOX II Series, including support for 4K video, Type 2 dual-mode DisplayPort outputs, and selectable downscaling for interoperability with lower resolution displays. The FOX II DP 4K also includes many integrator-friendly features such as Key Minder®, EDID Minder®, audio embedding, audio gain and attenuation, along with real-time system monitoring.

FEATURES

- Extends DisplayPort video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling

- Supports lossless 4K video up to 4096x2160 at 30 Hz with a 4:4:4 color space, including 1080p/60 Deep Color, over one fiber
- Vertical sync lock enables lossless 4K video transmission up to 4096x2160 at 60 Hz with a 4:4:4 color space over two fibers
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages EDID communication between connected devices
- Type 2 dual-mode DisplayPort for interoperability with HDMI, DVI, or VGA devices
- Selectable downscaling for interoperability with lower resolution displays
- Buffered DisplayPort input loop-through - FOX II T DP 4K
- Audio return channel
- Bidirectional RS-232 and IR signal transmission over fiber optic cabling for AV device control



FOX II T DP 4K

FOX II R DP 4K



Model	Version Description	Part Number
FOX II T DP 4K MM	DP Transmitter - Multimode	60-1462-11
FOX II R DP 4K MM	DP Receiver - Multimode	60-1462-21
FOX II T DP 4K SM	DP Transmitter - Singlemode	60-1462-12
FOX II R DP 4K SM	DP Receiver - Singlemode	60-1462-22

FOX II T HD 4K

Fiber Optic Transmitter for HDMI, Multi-Channel Audio, RS-232, and IR

The Extron FOX II T HD 4K Fiber Optic Transmitter provides long haul extension of HDMI video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling. Engineered with uncompromising quality and proven performance, it uses Extron all-digital technology to deliver lossless HDMI computer and video images up to 4096x2160, including 1080p/60 with Deep Color. This HDCP-compliant transmitter brings new features to the FOX II Series, including support for 4K video along with selectable downscaling for the local monitor output. The FOX II T HD 4K also includes many integrator-friendly features such as Key Minder®, EDID Minder®, audio embedding, audio gain and attenuation, as well as real-time system monitoring.

FEATURES

- Transmits HDMI video, multi-channel audio, RS-232 control, and IR control signals over fiber optic cabling
- Supports lossless 4K video up to 4096x2160 at 30 Hz with a 4:4:4 color space, including 1080p/60 Deep Color, over one fiber
- Vertical sync lock enables lossless 4K video transmission up to 4096x2160 at 60 Hz with a 4:4:4 color space over two fibers
- HDCP compliant
- Key Minder® continuously verifies HDCP compliance for quick, reliable switching
- EDID Minder® automatically manages EDID communication between connected devices
- Buffered HDMI input loop-through
- Selectable downscaling for interoperability with lower resolution displays
- Audio return channel
- Bidirectional RS-232 and IR signal transmission over fiber optic cabling for AV device control



Model	Version Description	Part Number
FOX II T HD 4K MM	HDMI Transmitter - Multimode	60-1351-11
FOX II T HD 4K SM	HDMI Transmitter - Singlemode	60-1351-12

FIBER OPTICS

FOX II RS 104

Four Port Fiber Optic RS-232 Inserter

The Extron FOX II RS 104 is a four port fiber optic RS-232 inserter for long-haul transmission of control signals to remote devices over fiber optic cabling. Each port provides a bidirectional fiber optic connection to a FOX or FOX II Series extender for the insertion and extraction of control data, while maintaining a continuous pass-through link for video and audio. Engineered with uncompromising quality and proven performance, it uses Extron all-digital technology to deliver pixel-for-pixel DisplayPort, HDMI, DVI, computer-video, and standard definition video. Output reclocking on the buffered fiber optic outputs ensures signal integrity, sending a fiber optic signal at its original power level.

FEATURES

- RS-232 insertion from the Ethernet port to one or more of the fiber optic outputs
- Buffered outputs restore optical budget to maximize distance capabilities
- Output reclocking reshapes and restores the timing of a digital signal
- Ethernet monitoring and control
- Available as an 850 nm multimode model for moderate-range transmissions up to 2 km (1.25 miles) and a 1310 nm singlemode model for extreme distances up to 30 km (18.75 miles)
- Industry standard LC connectors provide reliable physical connectivity and precise fiber core alignment
- Real-time status LED indicators for troubleshooting and monitoring
- Compatible with Extron FOX Series matrix switchers for signal distribution systems up to 1000x1000 and larger
- Compatible with Extron FOX Series DisplayPort, HDMI, DVI, VGA, VGA/YUV, and AV transmitters and receivers



Model	Version Description	Part Number
FOX II RS 104 MM	RS-232 Inserter - Multimode	60-1458-01
FOX II RS 104 SM	RS-232 Inserter - Singlemode	60-1458-02

FOX II AEX 108

Eight Port Fiber Optic Audio Extractor

The Extron FOX II AEX 108 Eight Port Fiber Optic Audio Extractor enables independent processing and routing of audio signals in a fiber optic AV distribution system. Each input port extracts the two-channel audio signal from a FOX II or FOX Series transmitter to provide analog balanced or unbalanced stereo audio, and retransmits the original fiber optic signal to the receiver. Output reclocking on the buffered pass-through maintains signal integrity, transmitting the signal at the original power level. Featuring high-speed, all-digital signal transmission of pixel-perfect video, audio, and control signals over fiber optic cabling, the FOX II AEX 108 is compatible with FOX II Series extenders and FOX Series HDMI, DVI, VGA, VGA/YUV, and AV transmitters and receivers.

FEATURES

- Provides local audio outputs from up to eight FOX or FOX II Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- Extracts audio from the eight ports simultaneously
- Balanced or unbalanced analog stereo audio output for integration with audio processing and distribution equipment
- Output reclocking reshapes and restores timing of the fiber optic signal
- Buffered input loop-throughs restore optical budget to maximize distance capabilities
- Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger
- Compatible with Extron FOX Series distribution amplifiers
- Compatible with Extron FOX Series DisplayPort, HDMI, DVI, VGA, VGA/YUV, and AV transmitters and receivers
- Rack-mountable 1U, half rack width metal enclosure



Model	Version Description	Part Number
FOX II AEX 108 MM	Audio Extractor - Multimode	60-1459-01
FOX II AEX 108 SM	Audio Extractor - Singlemode	60-1459-02

For updated product availability, go to www.extron.com

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FIBER OPTICS

PowerCage FOX II AEX 104
Four Port Fiber Optic Audio Extractor

The Extron PowerCage FOX II AEX 104 Four Port Fiber Optic Audio Extractor is a modular board designed for the Extron PowerCage 1600 enclosure that enables independent processing and routing of audio signals in a fiber optic AV system. Each input port extracts the two-channel audio signal from a FOX or FOX II Series transmitter to provide analog balanced or unbalanced stereo audio, and retransmits the original fiber optic signal to the receiver. Output reclocking on the buffered pass-through maintains signal integrity, transmitting the signal at the original power level. Featuring high-speed, all-digital signal transmission of pixel-perfect video, audio, and control, the PowerCage FOX II AEX 104 is compatible with FOX II Series extenders and FOX Series HDMI, DVI, VGA, VGA/YUV, and AV transmitters and receivers.

FEATURES

- Provides local audio outputs from up to four FOX or FOX II Series fiber optic signals, extracting analog stereo audio for independent processing and routing
- Extracts audio from the four ports simultaneously
- Balanced or unbalanced analog stereo audio output for integration with audio processing and distribution equipment
- Output reclocking reshapes and restores timing of the fiber optic signal
- Buffered input loop-throughs restore optical budget to maximize distance capabilities
- Real-time status LED indicators for troubleshooting and monitoring
- Modular, hot-swappable board designed for the PowerCage 1600 enclosure, part #60-978-01
- Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger



Model	Version Description	Part Number
PowerCage FOX II AEX 104 MM	Audio Extractor - Multimode	70-1068-01
PowerCage FOX II AEX 104 SM	Audio Extractor - Singlemode	70-1068-02

FOXBOX T HD-SDI
Fiber Optic Transmitter for 3G-SDI, Stereo Audio, and RS-232

The Extron FOXBOX T HD-SDI Fiber Optic Transmitter converts 3G-SDI, HD-SDI, and SDI video for use with FOX Series DisplayPort, HDMI, DVI, and VGA receivers, including the FOXBOX SR HDMI scaling receiver. Engineered with uncompromising quality and proven performance, it uses Extron all-digital technology to provide perfect pixel-for-pixel transmission of video. It also transmits embedded AES audio or stereo analog audio and RS-232 control signals for increased system integration flexibility. This transmitter includes many integrator-friendly features such as SD Pro processing, input cable equalization, audio embedding, audio gain and attenuation, as well as real-time system monitoring. The FOXBOX T HD-SDI transmitter enables simple and streamlined integration of SDI sources with non-SDI displays in a fiber optic AV system.

FEATURES

- Converts 3G-SDI, HD-SDI, and SDI signals for long distance transmission over fiber optic cabling to a FOX Series DisplayPort, HDMI, DVI, or VGA receiver
- Supports data rates from 270 Mbps to 2.97 Gbps
- SD Pro processing provides deinterlacing of standard definition video
- Buffered 3G-SDI/HD-SDI/SDI input loop-through
- Bidirectional RS-232 signals over fiber optic cable for AV device control
- Audio embedding
- Embedded AES audio support
- Input equalization and reclocking on buffered loop-through
- Real-time status LED indicators for troubleshooting and monitoring
- Audio gain and attenuation adjustment capability
- Alarm notification for fiber link loss



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Model	Version Description	Part Number
FOXBOX T HD-SDI MM	Multimode - Transmitter	60-1411-11
FOXBOX T HD-SDI SM	Singlemode - Transmitter	60-1411-12

FIBER OPTICS

FOX USB Extender Plus Fiber Optic Extender for USB Peripherals

The Extron FOX USB Extender Plus is a fiber optic transmitter and receiver set for long haul transmission of USB signals over fiber optic cabling. Engineered for reliability and exceptional performance, it uses Extron all-digital technology to deliver a perfect signal. This fiber optic extender is compatible with USB 3.0, 2.0, 1.1, and 1.0 devices with transfer data rates up to 480 Mbps. Designed specifically for AV systems, the FOX USB Extender Plus includes many integrator friendly features such as peripheral emulation, an active four-port hub that supplies 5 Volts, 500 mA per port, and real-time system monitoring. Compact, low-profile enclosures allow for discreet installation.

FEATURES

- Extends USB peripherals very long distances over fiber optic cabling
- Supports USB 3.0, 2.0, 1.1, and 1.0 devices with data transfer rates up to 480 Mbps
- Receiver features an integrated four-port hub with 5 Volts, 500 mA available on each port
- Peripheral emulation
- Real-time status LED indicators for troubleshooting and monitoring
- Compatible with Extron FOX Matrix Switchers for signal distribution systems up to 1000x1000 and larger



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Model	Version Description	Part Number
FOX T USB Extender Plus MM	Multimode - Transmitter	60-1474-11
FOX R USB Extender Plus MM	Multimode - Receiver	60-1474-21
FOX T USB Extender Plus SM	Singlemode - Transmitter	60-1474-12
FOX R USB Extender Plus SM	Singlemode - Receiver	60-1474-22
FOX T USB Extender Plus HID MM	Multimode - HID Transmitter	60-1526-11
FOX T USB Extender Plus HID SM	Singlemode - HID Transmitter	60-1526-12
FOX R USB Extender Plus HID MM	Multimode - HID Receiver	60-1526-21
FOX R USB Extender Plus HID SM	Singlemode - HID Receiver	60-1526-22

USB FOR PRO AV

USB Extender Plus Series Twisted Pair Extender for USB Peripherals

The USB Extender Plus Series extends signals from USB peripheral devices located up to 330 feet (100 meters) away from the host computer using a single CATx cable. It is compatible with USB 3.0, 2.0, 1.1, and 1.0 devices with transfer data rates up to 480 Mbps. The transmitter includes USB peripheral emulation to enable trouble-free booting of a host computer that is not connected to a keyboard or mouse. For simplified integration, the receiver features a built-in, active four-port hub that supplies 5 Volts, 500 mA on each port to power attached devices. Available in various form factors, the USB Extender Plus Series supports USB peripherals such as interactive whiteboards, keyboards, mice, mass storage devices, webcams, headsets and speakers, along with other USB devices in a wide variety of environments.

FEATURES

- Extends USB peripherals up to 330 feet (100 meters) on one CATx cable
- Supports USB 3.0, 2.0, 1.1, and 1.0 devices with data transfer rates up to 480 Mbps
- Receiver features an integrated four port hub with 5 Volts, 500 mA available on each port
- Peripheral emulation
- Real-time status LED indicators for troubleshooting and monitoring
- Choice of rack-mountable and architectural form factors



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Model	Version Description	Part Number
USB Extender Plus T	Transmitter	60-1471-12
USB Extender Plus R	Receiver	60-1471-13
USB Extender Plus D T	Transmitter - Decora Version - White	60-1473-13
USB Extender Plus D R	Receiver - Decora Version - White	60-1473-23
USB Extender Plus AAP T	Transmitter - AAP Version - Black	60-1472-12
USB Extender Plus AAP R	Receiver - AAP Version - Black	60-1472-22
USB Extender Plus AAP R	Receiver - AAP Version - White	60-1472-23

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AV TO USB BRIDGE

MediaPort 200

HDMI and Audio to USB Scaling Bridge

The Extron MediaPort 200 is an HDMI to USB bridge for integrating an AV source or system with software codec conferencing applications. It seamlessly integrates with a PC or Mac using generic USB drivers. The MediaPort 200 features an HDMI input with loop-through, accepts signals up to 1920x1200, and scales to a USB 2.0 output. Audio connectivity options include program input and output, a mic input, and an AEC reference output. The USB link supports bidirectional audio, delivering host PC and far-end audio like a USB sound card. Advanced DSP with EQ, dynamics, ducking, and mixing allows the MediaPort 200 to serve as a complete software codec bridge, with the added flexibility of integrating into a larger hardware codec or DSP system. The MediaPort 200 allows complete integration of software codecs into pro AV system designs.

FEATURES

- Integrates a pro AV source or system into a software codec application
- USB 2.0 connection appears as generic Webcam to host PC or Mac
- Video scaling provides USB output from 320x180 to 1080p/30 to match common software codec requirements
- Integrated advanced audio DSP
- AEC reference output interfaces with an outboard DSP for echo-free conferencing
- HDMI input with HDCP-compliant loop through enables simultaneous integration with a hardware videoconferencing codec

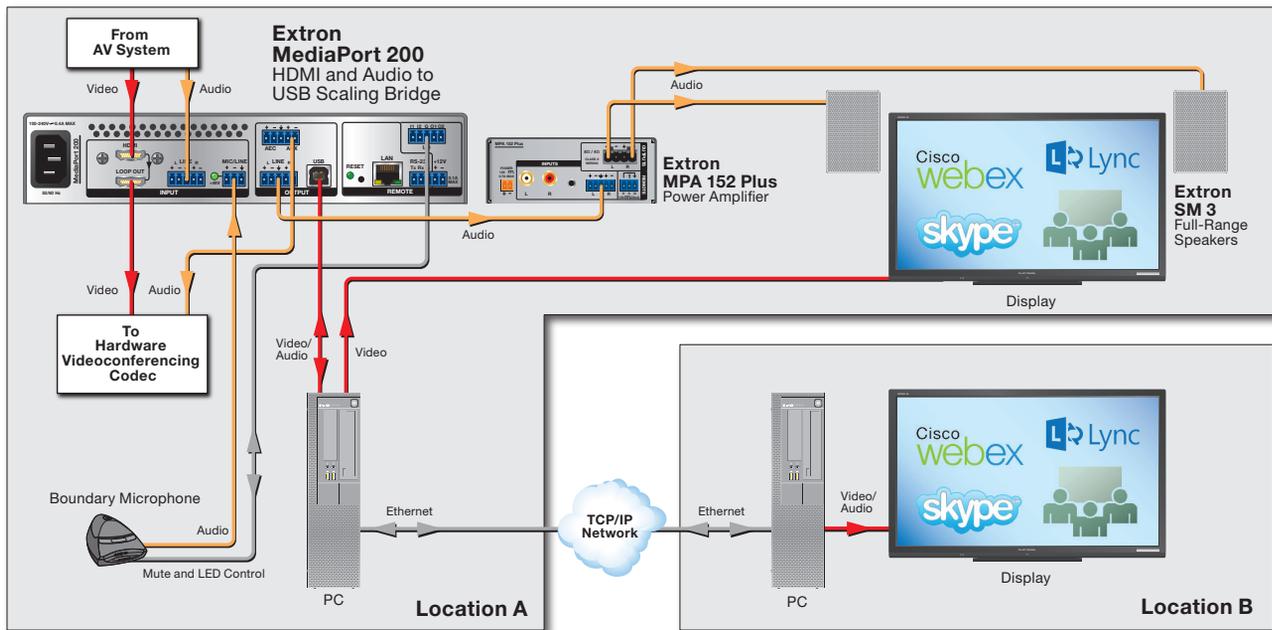
- Accepts and processes USB send and return audio
- Supports popular software communications platforms including Microsoft® Lync®/Skype® for Business, Adobe® Connect™, and Cisco® WebEx®
- Accepts HDMI computer and video resolutions up to 1080p/60 and 1920x1200
- USB streaming video output with MJPEG compression
- Microphone input with 48 volt phantom power
- Front panel LED indicators for HDMI and USB signal status
- SMPTE input overscan
- User-selectable HDCP authorization
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant destination
- EDID Minder® automatically manages EDID communication between connected devices
- Aspect ratio control
- Internal video test patterns for calibration and setup
- Pink noise generator selectable for all audio outputs
- EQ and compression on all inputs
- EQ and limiter on USB and line outputs
- Mic and USB audio ducking
- User-definable DSP audio presets allow quick recall of commonly used configurations
- Ethernet monitoring and control
- RS-232 control port
- Built-in Web pages
- Easy setup and commissioning with Extron's PCS - Product Configuration Software



Works with these and other conferencing applications:



Model	Version Description	Part Number
MediaPort 200	HDMI and Audio to USB Scaling Bridge	60-1488-01



WIRELESS

ShareLink 200
Wireless Collaboration Gateway

The Extron ShareLink 200 Wireless Collaboration Gateway enables anyone to present content from a laptop, smartphone, or tablet on a display, transforming any meeting room into a collaboration space. ShareLink™ technology supports simultaneous display of slides, documents, graphs, and photos from up to four devices without needing a cable. It is compatible with Windows® and OS X® computers as well as Apple® and Android® smartphones and tablets. It also includes a moderator mode to ensure only approved content is displayed. In spaces with sight line concerns, slides can be viewed on a personal device via a Web browser. The professional capabilities of the ShareLink 200 wireless and network models provide easy integration of mobile devices into meeting and huddle rooms, interactive collaborative spaces, and larger presentation environments.

FEATURES

- Wirelessly share content from personal mobile devices
- Supports Microsoft Windows® and OS X® computers as well as Apple® and Android® smartphones and tablets
- Simultaneous content display from up to four different personal devices
- Dropbox integration within the MirrorOp® for Extron ShareLink™ app provides easy access to content stored in the cloud
- Moderator mode ensures only approved content is displayed
- Content sharing from a computer to as many as four ShareLink 200 units on the network
- Full screen or four-window display
- WebShare™ technology enables attendees to view slide images on personal devices via a Web browser
- Power over Ethernet, or PoE, eliminates the need for a local power supply
- Wireless model includes an integrated wireless access point - ShareLink 200 model



ShareLink 200



ShareLink 200 N
Collaboration Gateway - Network Version

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Model	Version Description	Part Number
ShareLink 200	Wireless Collaboration Gateway - with WAP	60-1508-01
ShareLink 200 N	Collaboration Gateway - Network Version - no WAP	60-1508-02

eLink 100
Professional Grade Wireless Extender for HDMI

The Extron eLink 100 is a professional-grade wireless transmitter and receiver set for extension of HDMI video and multi-channel audio up to 100 feet (30 meters). This HDCP-compliant extender features a robust wireless communication technology to ensure high reliability and real-time performance with exceptional image quality for resolutions up to 1920x1080, including HDTV 1080p/60. It includes features designed specifically for professional AV systems such as AES-128 encryption to ensure a secure link and use of the 5 GHz spectrum for transmission through multiple walls. Extron eLink™ technology ensures reliable operation of up to four eLink extender sets, even if other wireless systems are within the same facility. In addition to point-to-point designs, one transmitter can support four receivers to create a wireless distribution system.

FEATURES

- Reliable, professional-grade wireless extension of HDMI video and multi-channel audio signals up to 100 feet (30 meters)
- Capable of transmitting through multiple walls and furniture
- Supports computer video up to 1920x1080, including HDTV 1080p/60
- HDCP Compliant
- Ultra-low latency transmission of video and audio signals
- Professional-grade technology enables simultaneous transmission from one transmitter to as many as four receivers
- Actively monitors RF spectrum to select the ideal transmission channels
- Supports multiple embedded audio formats
- eLink™ wireless technologies allow as many as four transmitter and receiver sets to operate within the same space



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Model	Version Description	Part Number
eLink 100 T US	Transmitter - US/Canada version	60-1490-02
eLink 100 R US	Receiver - US/Canada version	60-1490-03
eLink 100 T EU	Transmitter - EU version	60-1490-12
eLink 100 R EU	Receiver - EU version	60-1490-13
eLink 100 T AUS	Transmitter - AUS version	60-1490-22
eLink 100 R AUS	Receiver - AUS version	60-1490-23

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ARCHITECTURAL CONNECTIVITY

**Retractor Series/2 and Retractor Series/2 XL
Mini DisplayPort to DisplayPort
Cable Retraction System with Speed Control for
Cable Cubby Enclosures**

The Extron Retractor Series/2 Mini DisplayPort to DisplayPort and is a variable speed cable retraction and management system designed to work with Cable Cubby® Series/2 and TouchLink Cable Cubby cable access enclosures, and the TMK 120 R Table Mount Kit. Retractor Series/2 cable retraction modules are available in most AV and data signal types including HDMI, DisplayPort, VGA, PC Audio, and Network. Retractor Series/2 cables extend up to three feet (90 cm), while the Retractor Series/2 XL – Extended Length models support cable extension up to five feet (152 cm). Cables are held securely in place at the desired length, and retract at the press of a button, with integrator-adjustable retraction speed control for smooth operation in both horizontal and vertical mounting orientations.

FEATURES

- Convenient, easy to install cable retraction system for Cable Cubby cable access enclosures and TMK 120 R Table Mount Kit
- Retractor Series/2 cables support cable extension up to three feet (90 cm)
- Retractor Series/2 XL – Extended Length models support cable extension up to five feet (152 cm)
- Simple push-button release retracts cable after use
- Precise variable-speed cable retraction control provides more than 50 steps of adjustment between 1.5 and 4.0 seconds
- Engineered for long life and reliability, and tested to exceed 7,500 cable extension and retraction cycles
- Available in Mini DisplayPort to DisplayPort and most AV and data signal types



Model	Version Description	Part Number
Retractor Series/2 Mini DisplayPort-DisplayPort	Mini DP to DP; 3 feet (90 cm)	70-1065-18
Retractor Series/2 XL Mini DisplayPort-DisplayPort	Mini DP to DP; 5 feet (152 cm)	70-1066-18

**Cable Cubby 100
Series/2 Cable Access Enclosure for AV Connectivity and Power**

The Cable Cubby® 100 is a round furniture-mountable cable access enclosure for AV connectivity and power. It is ideal for applications where a single user access point is required. Installation is simple and clean using a 4" (102 mm) round-hole saw. The Cable Cubby 100 features two connectivity openings for up to four single-space Mini Architectural Adapter Plates - MAAPs or two single-spaced MAAPs and three AV cables. Its modular design allows cables and connectivity to be installed and serviced from the top of the enclosure. The Cable Cubby 100 is also available with two USB power outlets for charging mobile devices. The Cable Cubby 100 Switch Kit is available for "Show Me," push to talk, or mute mic applications. A cover plate conceals mounting screws giving a refined appearance. The Cable Cubby 100 is available in a black finish.

FEATURES

- Accommodates up to four MAAP – Mini Architectural Adapter Plates or three AV cables and two MAAPs; MAAPs and cables sold separately
- Unique, split ring design allows cables to be installed or serviced from the top of the enclosure before or after installation
- Fast installation with standard 4" (102 mm) round hole saw
- Available with USB power for charging mobile devices
- Optional Cable Cubby 100 Single LED Switch Kit PN# 70-1111-02 ring lights for visual feedback



Cable Cubby 100 shown with optional products sold separately

Model	Version Description	Part Number
Cable Cubby 100	Black - No Power	70-1109-02
Cable Cubby 100	Black, With USB Power	60-1592-12
Cable Cubby 100 Switch Kit	Single LED	70-1111-02

ARCHITECTURAL CONNECTIVITY

Cable Cubby 500 CCB

Series/2 Cable Access Enclosure for AV Connectivity, Remote Control, and AC Power

The Cable Cubby 500 CCB is a furniture-mountable cable access enclosure for AV connectivity, AC power, and remote control. Its three-button contact closure panel offers input selection for Extron switchers and control products. The brushed stainless steel pushbuttons are raised for tactile feedback and have illuminated LED rings for visual feedback. The enclosure accommodates one power module and includes mounting brackets for Retractor modules, AV cables, or AAP - Architectural Adapter Plates. The patent-pending design allows easy installation and service of cables and AAPs. For fast installation, an integrated clamp system quickly secures the enclosure without the need for tools. Power modules are available for the US, Europe, and other major world markets.

FEATURES

- Accommodates one Series/2 AC or AC+USB Power Module, plus three Retractors, four AV cables, or two AAP- Architectural Adapter Plates
- Patent-pending modular design for fast assembly and serviceability
- Retractor, Cable Pass-Through, and AAP brackets included
- Cable Cubby 500 CCB features raised buttons that are compatible with Extron switchers and other products with contact closure control ports
- AC Power and AC+USB Power Modules are available for US, Europe, and other major world markets



Cable Cubby 500 CCB shown with optional products sold separately

Model	Version Description	Part Number
Cable Cubby 500 CCB	Black w 3 Buttons-AC Module Not Included . . .	70-1125-02

CCB 30

Three-Button Contact Closure Remote for Cable Cubby Series/2 Enclosures

The CCB 30 is a three-button contact closure remote control panel that mounts in a Cable Cubby 700 enclosure. The CCB 30 provides control of input selection on Extron switchers and control products with contact closure control ports. Three brushed stainless steel pushbutton switches feature a raised surface for ease of access and tactile feedback. LED rings around the switches light for visual feedback. For ease of switch function identification, custom laser-etched faceplate labeling is available. The CCB 30 includes a Series/2 mounting bracket and other installation hardware.

FEATURES

- Mounts in a Cable Cubby 700 cable access enclosure
- Three-button contact closure remote control panel for Extron switchers or control modules with contact closure ports
- Switches provide momentary operation for input selection, volume adjustment, or other functions
- Raised pushbutton switches allow the user to press with ease
- LED ring lights for visual feedback of switch status



Model	Version Description	Part Number
CCB 30	Three LED switches, Cable Cubby	70-1124-02

For updated product availability, go to www.extron.com

ARCHITECTURAL CONNECTIVITY

AVEdge 100

Edge Mount Enclosure for AV, Data, and Power

The Extron AVEdge™ 100 is a cable access enclosure designed to mount onto the edge of a tabletop surface in semi-permanent installations where cutting the surface is not desirable. An integrated clamp system secures the enclosure to the tabletop surface without the need for tools or additional parts. The AVEdge 100 accommodates up to four single-space Architectural Adapter Plates - AAPs, Cable Pass-Through Brackets for up to eight AV cables, or three Retractor cable retraction modules. It is compatible with select AAPs to power mobile devices and laptops. The optional CableCover minimizes cable tangles and accidental disconnects. The Extron ZipClip Series is also available to mount products such as the PS Series Desktop Power Supply directly to the enclosure. The AVEdge 100 is available in a black powder coat finish.

FEATURES

- Accommodates up to four AAP – Architectural Adapter Plates, three Retractor cable retraction modules, and eight AV cables; AAPs, cables, and retractor modules sold separately
- Unique, split-ring Cable Pass-Through bracket design allows up to four cables; each
- Ideal for configurable rooms that require semi-permanent AC power and AV connectivity
- Integrated tool-less clamp system
- UL/c-UL listed and CE compliant
- Available in a black powder coat finish



AVEdge shown with optional products sold separately

Model	Version Description	Part Number
AVEdge	Black, AC Module Not Included	70-1128-02



MOUNTING HARDWARE

SMB 110 Series

Surface Mount Boxes for US-Gang Products

The Extron SMB 110 Series Surface Mount Boxes are designed for the external mounting of US-gang Extron architectural products, including the MLC Plus 100 AAP MediaLink® Controller with AAP Opening, WPD Decora®-style Wallplates with Pass-through Connectors, and other Extron US-gang Decora-style wallplates and AAP - Architectural Adapter Plates. SMB 110 Series Surface Mount Boxes feature an elegant, contoured design that complements any environment, and they can be surface mounted on lecterns, tabletops, and other flat surfaces for convenient access to connectors and controls.

FEATURES

- Accepts standard US-gang size Extron architectural products
- Contoured design complements any environment
- Suitable for tabletop and lectern applications
- Available in a black finish



SMB 112

SMB 114 shown with optional products sold separately

Model	Version Description	Part Number
SMB 111	One-gang, black	70-1097-01
SMB 112	Two-gang, black	70-1097-02
SMB 113	Three-gang, black	70-1097-03
SMB 114	Four-gang, black	70-1097-04
SMB 115	Five-gang, black	70-1097-05

UPB 125

Universal Projector Mounting Bracket

The Extron UPB 125 Universal Projector Mounting Bracket is a compact, easy to install projector mount that is compatible with most projectors up to 15 pounds (6.8 kg) in weight. It simplifies projector mounting by eliminating the need to stock or order proprietary mounts for different brands. The versatile, two-piece UPB 125 features independent adjustment of horizontal tilt, vertical tilt, and rotation, for precise control of each axis and exact projector alignment. Once set, positioning settings can be locked into place and maintained when the projector and attached bracket arm assembly are removed for lamp replacement or filter service. The UPB 125 is available in a durable white powder coat finish.

FEATURES

- Universal projector mount compatible with most projectors up to 15 pounds (6.8 kg) in weight
- Independent adjustment of horizontal tilt or roll, vertical angle or pitch, and rotation or yaw
- Precise positioning adjustments are maintained even if projector is removed for service
- Includes all necessary projector mounting hardware
- Available in white



Model	Version Description	Part Number
UPB 125	Universal Projector Mounting Bracket - White	70-902-03

For updated product availability, go to www.extron.com

CABLES & ADAPTERS

XTP DTP 24 Series

Precision-terminated Shielded Twisted Pair Cables for XTP Systems and DTP Systems

Extron XTP DTP 24 Series cables are precision-terminated shielded twisted pair cables that optimize signal transmission and facilitate cabling of Extron XTP Systems® and DTP™ Systems. The XTP DTP 24 Series cables, available in Plenum and non-Plenum, are factory-terminated with Extron XTP DTP 24 Plugs and molded strain reliefs. The cables are constructed with Extron XTP DTP 24 bulk cable, which is certified to 475 MHz bandwidth at distances up to 330 feet (100 meters), and has been independently tested and verified to meet performance requirements set by the HDBaseT Alliance. In addition, XTP DTP 24 Series is engineered and tested to exceed HDMI error rate specifications of less than one pixel per billion at 100 meters.

FEATURES

- Engineered for superior performance with Extron XTP Systems and DTP Systems
- Provides added protection from outside interference and ensures high quality signal transmission
- Certified to 475 MHz bandwidth at distances up to 330 feet (100 m)
- Independently tested and verified to meet performance requirements set by HDBaseT Alliance
- Engineered and tested to exceed HDMI error rate specifications of less than one pixel per billion at 100 meters
- SF/UTP design with four unshielded twisted pairs inside an overall braid and foil shield
- 24 AWG solid copper construction
- Molded strain relief reduces cable damage at connector-sleeve stress point due to flexing and fatigue
- Available in lengths from three feet to 100 feet (90 cm to 30.4 m)
- Non-plenum and plenum-rated versions available



XTP DTP 24 Series - Non-Plenum



XTP DTP 24P Series - Plenum



Model	Version Description	Part Number
Non-Plenum		
XTP DTP 24/3	3' (90 cm)	26-702-03
XTP DTP 24/6	6' (1.8 m)	26-702-06
XTP DTP 24/9	9' (2.7 m)	26-702-09
XTP DTP 24/12	12' (3.6 m)	26-702-12
XTP DTP 24/25	25' (7.6 m)	26-702-25
XTP DTP 24/35	35' (10.6 m)	26-702-35
XTP DTP 24/50	50' (15.2 m)	26-702-50
XTP DTP 24/75	75' (22.8 m)	26-702-75
XTP DTP 24/100	100' (30.4 m)	26-702-100

Model	Version Description	Part Number
Plenum-Rated		
XTP DTP 24P/3	3' (90 cm)	26-695-03
XTP DTP 24P/6	6' (1.8 m)	26-695-06
XTP DTP 24P/9	9' (2.7 m)	26-695-09
XTP DTP 24P/12	12' (3.6 m)	26-695-12
XTP DTP 24P/25	25' (7.6 m)	26-695-25
XTP DTP 24P/35	35' (10.6 m)	26-695-35
XTP DTP 24P/50	50' (15.2 m)	26-695-50
XTP DTP 24P/75	75' (22.8 m)	26-695-75
XTP DTP 24P/100	100' (30.4 m)	26-695-100

AVSD APP



AVSD App for iPad

Summer 2015 Issue Now Available

The new AV Systems Design - AVSD app for the Apple iPad is now available. In addition to the print and the online versions, our readers now have a third way to access all the great content in every issue of AVSD. The new AVSD app makes it convenient to read AVSD anywhere you are: in the office, at home, or on the road.

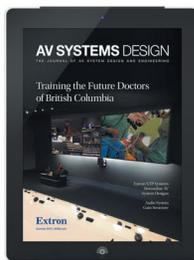
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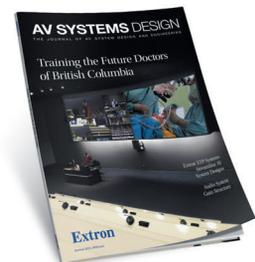


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Selecting the right product for your AV system starts with having the right information. The unfortunate reality is that, beyond making bold claims about supporting 4K or UHD, very few AV product manufacturers make it easy for you to find the crucial information you need to determine if a product meets the needs of your AV system.

It's not enough to claim that a product is "4K Capable", or "4K Certified", or "4K Ready". Unless a manufacturer clearly defines the resolution, frame rate, color sampling, and color bit depth that their product supports, they haven't told you what you need to know – they haven't told you the truth.

At Extron, we believe in providing you ALL the information you need to select the right product for your system. We have always been the manufacturer you could count on for detailed, clear and honest specifications for our products. Extron is maintaining its leadership position by defining what a complete and detailed product specification for 4K video performance MUST include. We call this the Extron True4K™ Specification.

True4K Specification

For every Extron 4K product, you'll be able to clearly identify the four critical parameters you need to know to meet your performance requirements for 4K video:

- Resolution
- Color sampling
- Frame rate
- Color bit depth

Look for the True4K logo at the top of the specifications for any Extron 4K product, followed by a True4K Specification that always includes resolution, frame rate, color sampling, and color bit depth. You'll also see information about the 4K video signal types and the maximum effective 4K data rate supported by the product. Shown below is a True4K Specification for an Extron XTP II CrossPoint matrix switcher.

TRUE 4K SPECIFICATION		
Max 4K Capabilities		
Resolution and Frame Rate	Chroma Sampling	Max Bit Depth per Color
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:4:4	16 bit
Frame Rate	24, 25, 30, 50, or 60 fps	
Chroma Sampling	4:4:4, 4:2:2, or 4:2:0	
Color Bit Depth	8, 10, 12, or 16 bits per color	
Backplane Throughput	50 Gbps per input and output	
NOTE: Use our calculator to determine video parameters supported by this data rate.		

New 4K White Paper

To help you better understand the important performance parameters for 4K, we have created a new white paper titled "Hitting the Moving Target of 4K." Inside, you'll find the essential information you need to know about how each of these parameters affects 4K video performance. The paper also offers valuable insight into what's currently in development as 4K technology continues to evolve, so you can begin to consider new AV integration opportunities down the road. You can download a copy of the paper at www.extron.com/4Kpaper.

Extron Training - Designing Systems for 4K and Beyond

Extron Institutes now include new training that provides vital information that AV system designers need to know in order to successfully design 4K video systems that perform reliably and meet customer expectations. Some of the topics include: understanding the four critical 4K video performance parameters and which is most important with different types of source material, using the True4K Specification, how to calculate the required data rate for various applications, plus much more.

4K system design training is available at Extron Institutes worldwide:

LOCATION	DATES
Anaheim, CA	Oct. 19-20; Nov. 3-4; Dec. 14-15
Dallas, TX	Sept. 22-23; Oct. 8-9; Nov. 12-13
Detroit, MI	Oct. 8-9
New York, NY	Sept. 15-16; Oct. 26-27; Oct. 30; Dec. 3-4
Raleigh, NC	Sept. 21-22; Oct. 13-14
Mexico City, Mexico	Aug. 17-18; Nov. 23-24
Montreal, Canada	Sept. 24-25
Toronto, Canada	Nov. 19-20
Paris, France	Nov. 26-27
Frankfurt am Main, Germany	Sept. 16-17; Nov. 24-25
Amersfoort, The Netherlands	Sept. 21-22; Oct. 12-13; Oct. 26-27; Dec. 7-8
Moscow, Russia	Nov. 9-10; Nov. 16-17
Stockholm, Sweden	Dec. 8-9
London, United Kingdom	Oct. 5-6; Oct. 12-13; Nov. 23-24
Dubai, United Arab Emirates	Nov. 18-19; Nov. 25-26
Beijing, China	Jul. 8-9; Dec. 15-16
Shanghai, China	Nov. 11-12
Ahmedabad, India	Aug. 11-12
Bangalore, India	Dec. 15-16
Chennai, India	Oct. 6-7
Hyderabad, India	Aug. 26-27
Mumbai, India	Dec. 15-16; Dec. 17-18
New Delhi, India	Nov. 3-4
Fukuoka, Japan	Sept. 9-10
Nagoya, Japan	Oct. 14-15
Sapporo, Japan	Nov. 30-Dec. 1
Tokyo, Japan	Sept. 30-Oct. 1
Seoul, Korea	Nov. 25-26
Kuala Lumpur, Malaysia	Aug. 17-18
Singapore	Oct. 13-14; Nov. 24-25
Melbourne, Australia	Sept. 23-24
Sydney, Australia	Oct. 28
Auckland, New Zealand	Sept. 29-30

Learn More

To find out more about Extron 4K system design training, contact your Extron S3 Customer Support Representative.



Extron Control Systems Certification Programs Establish Your Knowledge of Extron Pro Series Control Systems

We have launched two new Extron Control Systems Certification programs designed to prepare individuals to successfully deploy and maintain customized AV control systems that are built around our recently-launched IP Link® Pro Series and TouchLink® Pro Series products. The **Extron Control Specialist – ECS** and **Extron Control Professional – ECP** certifications focus on control system customization for a wide range of applications, advanced device communications, troubleshooting, and best practices.

Certification Comparison

Extron Control Specialist - ECS

Audience

This program is ideal for industry professionals who install, configure, operate, manage, and troubleshoot Extron Pro Series control systems. This includes design engineers, AV system installers, and system integration project managers. AV control system design and installation experience is recommended.

Delivery Method

ECS is delivered through instructor-led training. To achieve certification, students must also pass an Extron-proctored exam.

Course Content

ECS is a two-day course consisting of the following general categories:

- Learn Global Configurator Plus software, and use its powerful capabilities to configure and manage Extron Pro Series control systems
- Control system design concepts
- Configure a wide range of room control functions using Global Configurator Plus
- Create custom control interfaces using GUI Designer software, plus GUI design best practices
- Validate Pro Series control systems in multiple AV environments

Extron Control Professional - ECP

Audience

This program is ideal for advanced users or control system programmers who understand the complexities of more sophisticated systems. A background of 2-5 years of AV control system design, programming, and installation experience is recommended.

Delivery Method

ECP is delivered through instructor-led training. To achieve certification, students must also pass an Extron-proctored hands-on exam.

Course Content

ECP is a three-day course consisting of the following general categories

- Learn Global Configurator Professional software, and how to take advantage of the advanced features for more complex system designs
- Sophisticated control system design concepts and advanced configuration techniques
- Create custom control interfaces using GUI Designer software, plus GUI design best practices
- Validate complex Pro Series control systems in multiple AV environments

Learn More

To find out more about the Extron Control Systems Certification programs, contact your Extron S3 Customer Support Representative.



XTP Systems Certification Program

Establish Your Knowledge of Digital Systems

The Extron XTP Systems Certification programs are designed to prepare individuals to successfully deploy and maintain enterprise-wide digital systems based on Extron XTP Systems. The **XTP Systems Design Engineer – XTP-E** and **XTP Systems Technician – XTP-T** certifications provide a balanced approach to theory and hands-on application. XTP-E focuses on the practical aspects of designing digital AV systems, while XTP-T provides an emphasis on the practical aspects of installing, configuring, and commissioning digital AV systems.

Certification Comparison

XTP Systems Design Engineer – XTP-E

Audience

This program is ideal for individuals who will be required to design Extron XTP Systems.

Delivery Method

XTP-E is delivered through online course material and instructor-led training. Once enrolled, students are required to pass an online exam for Digital AV Technologies. To achieve certification, students must also attend an instructor-led course and pass an Extron-proctored system design exam.

Course Content

XTP-E is a two-day course consisting of the following general categories:

- XTP Systems theory, including the general principles of XTP System design within multiple AV environments
- Complete XTP System design concepts
- Complex system configuration
- Designing for real-world scenarios

XTP Systems Technician – XTP-T

Audience

This program is ideal for individuals who will be required to install, configure, and commission Extron XTP Systems.

Delivery Method

XTP-T is delivered through online course material and instructor-led training. Once enrolled, students are required to pass online exams for the online courses. To achieve certification, students must also attend an instructor-led course and pass an Extron-proctored, two-part exam consisting of a written portion and a hands-on component.

Course Content

XTP-T is a two-day course consisting of the following general categories:

- XTP Systems installation concepts
- Complex system configuration
- Commissioning a system in a variety of applications
- Hands-on sessions that involve setting up and configuring a system according to a scope of work and system schematic
- Validate an XTP System installation in multiple AV environments
- Troubleshooting XTP Systems

Learn More

To find out more about the Extron XTP Systems Certification programs, contact your Extron S3 Customer Support Representative.



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