

The Extron **DTP CrossPoint 84 4K** is an 8x4 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 control processor. It provides complete system integration in a 2U 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.

The DTP CrossPoint 84 4K delivers all of the core functionality of a conventional AV system, in a single 2U enclosure that replaces as many as ten separate components. In addition to saving substantial space in a rack, the compact enclosure makes it easy to standardize on a common system design throughout a facility, and to adapt this DTP CrossPoint® matrix switcher to many different environments where equipment space may be limited. This fully-featured presentation matrix switcher is highly versatile and is ideal for presentations with content on multiple displays, and for providing a variety of AV system configurations to serve multi-purpose and divisible rooms.

Integrated 8x4 Matrix Switcher with Exclusive Vector 4K Scaling

The DTP CrossPoint 84 4K streamlines integration with computers equipped with compatible graphics cards, 4K media players, 4K cameras, and displays at 4K or UHD native resolution. All HDMI and DTP inputs accept high resolution signals up to 4K. The DTP CrossPoint 84 4K incorporates the Extron exclusive Vector 4K scaling engine that is specifically designed with best-in-class image upscaling and downscaling. The Vector 4K engine embodies a new set of image processing algorithms that deliver uncompromising scaling performance with 30-bit precision processing. This enables independent scaling up to 4K for each of the two DTP outputs, or downscaling of 4K source signals for interoperability with lower resolution displays to suit application needs. For optimal picture quality, the DTP CrossPoint 84 4K delivers 4K video with 4:4:4 chroma sampling.

Matrix switching between the HDMI and DTP inputs and outputs enables a wide range of design possibilities to meet the audio and video requirements of boardrooms, lecture halls, or other applications with multiple displays. Flexible signal routing and reliable digital video switching with the DTP CrossPoint 84 4K allows support for multiple applications in one installation. For professional transitions between sources, the DTP CrossPoint 84 4K offers a range of switching effects on the scaled DTP video outputs. These include a freeze/fade transition that fades out a final frozen frame of the previous input source as the newly selected source fades in, a cut through black transition, and a fade through black transition. In addition, the DTP CrossPoint 84 4K provides the capability to insert a custom graphic logo, such as a company logo, into any presentation when using the scaled video outputs.

Support Local and Remote Sources and Displays

The DTP CrossPoint 84 4K includes six HDMI inputs and two HDMI outputs. The two DTP twisted pair inputs and two DTP outputs are compatible with a wide variety of DTP 230 and DTP 330 endpoints, as well as DTP-enabled switchers and signal processors to support remote HDMI, DisplayPort, DVI, and 3G-SDI equipment. Analog sources can be supported with select DTP 230 and DTP 330 switching transmitters. The DTP inputs can receive signals from remote DTP 230 or DTP 330 transmitters in areas such as a conference table, lectern, or wall for connecting a guest laptop. Each independently scaled DTP output can be used to transmit from a DTP CrossPoint 84 4K in a rack to a DTP 230 or DTP 330 receiver behind a flat-panel display on a wall, above a ceiling-mounted projector, or any other remote location. DTP 230 and DTP 330 transmitters and receivers are available in compact, low-profile enclosures, plus Decora® wallplate and floor box versions.

When the DTP CrossPoint 84 4K is paired with a DTP 330 transmitter or receiver, HDMI, DisplayPort, DVI, 3G-SDI, or VGA, plus control and analog audio signals can be extended up to 330 feet (100 meters) over a single shielded CATx cable. With a DTP 230 endpoint, signals can be extended up to 230 feet (70 meters).

The DTP twisted pair inputs and outputs include additional convenient, integrator-friendly features designed to help simplify installation. Bidirectional RS-232 and IR signals can be inserted from a control system and transmitted over the same shielded CATx cable, streamlining system design and installation. The DTP outputs also feature mirrored HDMI connections that enable local monitoring of the same digital video that is delivered via shielded CATx cable.

Compatible with XTP CrossPoint Matrix Switchers

In addition to supporting DTP endpoints, the DTP CrossPoint 84 4K can be integrated into an XTP CrossPoint matrix switcher system with digital video and embedded audio, plus bidirectional RS-232 and IR signals extended up to 330 feet. This is ideal for facility-wide AV system applications with a centralized AV signal distribution infrastructure, as well as several presentation spaces with local AV switching and processing. A DTP CrossPoint 84 4K in a room can connect into an XTP CrossPoint matrix switcher in a central equipment rack or closet for accessing shared AV resources, or sending a local presentation to several destinations in a facility.

HDBaseT-Compatible Outputs

The DTP outputs can be configured for compatibility with HDBaseT-enabled displays 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.

Built for Easy Source Integration, Reliable Operation, and Quick Switching

The DTP CrossPoint 84 4K is HDCP compliant and delivers highly reliable digital switching of HDMI signals. To simplify integration of HDMI sources and displays, and to help ensure optimal system performance and dependability, the DTP CrossPoint 84 4K features three Extron-exclusive technologies: EDID Minder®, Key Minder®, and SpeedSwitch®. EDID Minder manages EDID communication between the display devices and input sources to ensure that the correct video formats are displayed reliably. For HDMI signals with protected content, Key Minder authenticates and maintains continuous HDCP encryption between input and output devices to ensure quick and reliable switching. With SpeedSwitch Technology, the DTP CrossPoint 84 4K delivers exceptional, virtually instantaneous switching speeds for HDCP-encrypted content.

Powerful Integrated Control Processor

The DTP CrossPoint 84 4K IPCP features a built-in Extron IP Link® Pro control processor, with the advanced features, processing power, and breakthrough technologies found in the standalone Extron IPCP Pro 350 control processor. The DTP CrossPoint 84 4K IPCP delivers high-speed processing and abundant control port capacity for complete, customizable control of an entire AV system, including all source devices and displays, plus lighting, window shades, projection screens, occupancy sensing, and more. Select from a full line of Extron TouchLink® Pro touchpanel models, available in screen sizes from 3.5" to 15" in tabletop, wall-mount, and Extron Cable Cubby® form factors. Simply connect a TouchLink Pro touchpanel to the built-in Gigabit Ethernet switch to create a complete AV control system.

Extron eBUS® button panels can also be used with the DTP CrossPoint 84 4K IPCP. The integration-friendly eBUS technology is based on a unique digital bus architecture that allows for easy control system expansion, greater design options, and future upgrades. As with our TouchLink Pro touchpanels, eBUS button panels are designed for use with any Extron IPCP Pro Series control processor, allowing them to be used as a single user interface for a smaller system or multiple button panels and touchpanels may be combined when a more elaborate control system is required.

As with all Extron control systems, the DTP CrossPoint 84 4K IPCP is very intuitive and easy to configure with Global Configurator® software. The latest version of Global Configurator includes powerful, advanced features such as conditional logic, local variables, and macros. The DTP CrossPoint 84 4K IPCP offers the versatility to integrate a wide range of system control applications, from system powering and source switching, to elaborate operations such as videoconferencing management.

Global Configurator Professional adds unprecedented scalability with Controller Groups, a unique feature that allows a DTP CrossPoint 84 4K IPCP to be combined with additional IP Link Pro processors to create a large-scale control system. This is ideal for controlling multiple systems, rooms, or even remote locations around the world. DTP CrossPoint 84 4K IPCP systems throughout a facility, building, campus, or offices worldwide can be monitored and managed using Extron GlobalViewer® Enterprise server-based software. GlobalViewer Enterprise enables powerful enterprise-wide scheduling, monitoring, and helpdesk functions from a central location.

Extron [LinkLicense®](#) is an easy, cost-effective way for people to add even more powerful capabilities to Extron products. Purchasing a LinkLicense for User Interfaces upgrade for the DTP CrossPoint 84 4K IPCP will enable a mobile device or computer to serve as the primary control interface for the AV system. This expands AV control options, and promotes BYOD - Bring Your Own Device convenience. Another LinkLicense option - LinkLicense for Software Conferencing, transforms traditional software conferencing codecs into customizable applications that enhance all aspects of conferencing and AV system control. LinkLicense is applied per-system, not per-user, and there are no hidden costs.

Designed for Full Audio System Integration

In addition to video matrix switching and scaling of the DTP outputs, the DTP CrossPoint 84 4K can serve as the central component for full audio system integration. It includes audio switching and breakaway for all eight video sources, four mic/line inputs that can be matrix mixed into any output, as well as HDMI audio embedding and de-embedding. The DTP CrossPoint 84 4K also provides highly flexible configuration and processing options for the audio inputs and outputs, and for distributing the audio in a system. Each video input, including DTP endpoints, can be accompanied by embedded digital audio or separate analog audio.

Audio from the DTP CrossPoint 84 4K can be output with or without processing, as HDMI embedded audio, two-channel analog audio, S/PDIF digital audio, or amplified with the matrix switcher's integrated mono 70 volt or two-channel stereo power amplifier - MA and SA models. Multi-channel bitstream formats are routed directly to the outputs, without de-embedding or processing. The DTP CrossPoint 84 4K amplifier-equipped models deliver stereo power amplification with 50 watts rms per channel into 4 ohms or 25 watts rms per channel into 8 ohms, or mono 70 volt amplification with 100 watts rms output. These integrated amplifiers feature an Extron exclusive Class D amplifier design with patented CDRS™ - Class D Ripple Suppression technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs.

ProDSP, Acoustic Echo Cancellation, and Automixer for Complete Audio System Design and Optimization

All DTP CrossPoint 84 4K models feature Extron ProDSP, the same full-featured, high performance audio signal processing found in the Extron DMP 128 and DMP 64 digital signal processors. Extron's exclusive ProDSP is engineered from the ground up using a powerful 64-bit floating point DSP engine to provide very wide dynamic range and reduce the potential for clipping. ProDSP also utilizes studio grade 24-bit audio converters with 48 kHz sampling to maintain audio signal transparency. ProDSP is loaded with a comprehensive selection of powerful, easy-to-configure tools to control level, dynamics, filters, delay, ducking, loudness, and feedback suppression.

Truly professional grade DSP allows full audio system design, precise optimization and fine tuning, and proper gain structure. The four mic/line inputs can be matrix mixed into any of the eight stereo output buses to create finely tuned audio zones for the corresponding outputs. In addition, these inputs can be routed to any of the eight "virtual" buses to allow inputs to be processed together as a group, before routing into the output buses. If desired, mic/line input signals can be mixed with the signal processing bypassed. The flexible routing and mixing capabilities of the DTP CrossPoint 84 4K allow system designers to create simple or complex signal management schemes to accommodate a wide variety of system application requirements.

The DTP CrossPoint 84 4K includes four independent channels of high performance AEC - acoustic echo cancellation, as well as selectable noise cancellation, for conferencing applications. AEC is essential for effective remote room-to-room conversations, ensuring clear, natural sounding communication for all participants. Extron AEC features advanced algorithms that deliver fast echo canceler convergence for optimal intelligibility, even in challenging conditions such as double-talk when talkers from both ends are speaking simultaneously, or when near end talkers use wireless microphones. The DTP CrossPoint 84 4K also features an automixer with gated and gain sharing modes for managing up to eight groups of microphone signals. This allows for fine-tuning to avoid the “chopped” sound characteristic of a traditional automixer when a mic is gated off. For a natural sounding mic mix, the automixer also offers a gain sharing mode when the NOM - number of open microphones is bypassed, allowing all mics to gate on.

Setup and optimization is easy with the intuitive DSP Configurator™ Software. The flexible on-screen layout offers fast access to all digital audio signal processing tools, as well as AEC and noise cancellation settings for the DTP CrossPoint 84 4K. This includes level control, dynamics, filters, delay, ducking, loudness, feedback suppression, and matrix mixing, as well as real-time metering for ERL - echo return loss, ERLE - echo return loss enhancement, and TER - total echo reduction levels.

[Integrate with Extron Audio Processors for Larger Systems](#)

An Extron digital audio expansion port is included on all DTP CrossPoint 84 4K models for interfacing with an Extron DMP 128 Digital Matrix Processor. This allows a 16x16 I/O channel transport between devices, and the DMP 128 provides an additional 12 inputs and eight outputs for microphones, multiple speaker zones, assistive listening, and more. A linked DMP 128 also offers additional capabilities such as POTS analog phone interfacing with the DMP 128 C P. Many unique and scalable system designs are possible when linking a DTP CrossPoint 84 4K to a DMP 128 AT in a Dante™ network. As an example, this can be ideal for supporting a large number of microphones in a city council meeting chamber, or in a lecture hall for distance learning.

[Configuration](#)

The DTP CrossPoint 84 4K can be controlled via the front panel, Ethernet, USB, or RS-232. The matrix switcher can be configured using Extron's PCS - Product Configuration Software with a user-friendly GUI that is very easy to navigate. This software application allows for expedited setup and commissioning, real-time operation and monitoring, plus the ability to configure several DTP CrossPoint 84 4K units in the same session.

[Features](#)

- **All-in-one 8x4 4K matrix switcher, scaler, audio DSP with AEC, audio power amplifier, and control processor** — The DTP CrossPoint 84 4K delivers all of the core functionality of a conventional AV system. Advanced technological capabilities from Extron allow complete system design and integration from a single 2U device.
- **Inputs: Six HDMI, two DTP® twisted pair inputs on RJ-45, six stereo balanced/unbalanced audio inputs on captive screw, four mic/line audio inputs on captive screw**
- **Outputs: Two HDMI; two DTP twisted pair outputs on RJ-45; one S/PDIF digital audio output on coaxial RCA; four variable audio outputs on captive screw; speaker outputs on 5 mm, 4-pole captive screw connector - DTP CrossPoint® 84 4K IPCP SA or on 5 mm, 2-pole captive screw connector - DTP CrossPoint 84 4K IPCP MA 70**
- **Two DTP inputs and six HDMI inputs**
- **Two HDMI outputs and two independently scaled DTP outputs**
- **Two DTP outputs feature mirrored HDMI connections to support local monitoring**
- **4K matrix switching and scaling with selectable seamless transitions and logo keying** — The DTP CrossPoint 84 4K supports 4K signals at all video inputs and outputs, for integration with the latest

4K sources and displays. Each DTP output features a built-in high performance 4K video scaler, with the ability to insert a logo image.

- **Integrated DTP inputs and outputs support transmission of video, control, and audio up to 330 feet (100 meters) over a shielded CATx cable** — Two DTP inputs and two DTP outputs support digital signal transmission of HDMI, DisplayPort, DVI, 3G-SDI, or VGA plus control and analog audio up to 330 feet (100 meters) over a shielded CATx cable, providing high reliability and maximum performance on an easily installed cable infrastructure.
- **Advanced Extron Vector™ 4K scaling engine** — The Vector 4K scaling engine is specifically designed for critical-quality 4K imagery, with best-in-class image upscaling and downscaling. Image scaling and video format conversion are performed at full 4:4:4 chroma sampling to provide enhanced color accuracy and picture detail.
- **Selectable scaled DTP output rates from 640x480 to 4K** — The output rate can be individually selected for each of the two scaled DTP outputs. Available output rates include computer and video up to 4K, including 1080p/60 Deep Color.
- **Compatible with DTP 230 Series and DTP 330 Series, plus XTP® CrossPoint matrix switchers** — Enables mixing and matching with desktop and wallplate transmitters and receivers, as well as other DTP-enabled products. The DTP CrossPoint 84 4K can also be integrated with an XTP CrossPoint matrix switcher to provide connectivity between presentation spaces and a larger, facility-wide system.
- **DTP outputs are compatible with HDBaseT-enabled displays** — The DTP outputs can be configured to send video and embedded audio, plus bidirectional RS-232 and IR signals to HDBaseT-enabled displays.
- **Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance**
- **Compatible with CATx shielded twisted pair cable** — The DTP CrossPoint 84 4K fully supports a maximum transmission distance of 330 feet (100 meters) for all compatible resolutions when used with CATx shielded twisted pair cable. Shielded twisted pair cabling with solid center conductor sizes of 24 AWG or better is recommended for optimal performance.
- **Remote powering of select DTP transmitters and receivers** — The DTP CrossPoint 84 4K can provide power to select DTP transmitters and DTP receivers over the twisted pair connections, eliminating the need for separate power supplies at the remote units.
- **RS-232 insertion from the Ethernet control ports** — System level device control to all remote locations via the matrix switcher's Ethernet ports, providing comprehensive control of endpoints and attached devices without needing additional equipment.
- **Bidirectional RS-232 and IR insertion for AV device control** — Bidirectional RS-232 control and IR signals can be transmitted alongside the video signal over DTP connections, allowing the remote device to be controlled without the need for additional cabling. Bidirectional control insertion eliminates the need for control system wiring to remote devices.
- **Available with integrated IPCP Pro control processor** — DTP CrossPoint 84 4K IPCP models include a built-in IPCP Pro control processor for complete AV system control.
 - **Supports TouchLink® Pro touchpanels and eBUS® button panels**
 - **Supports secure industry standard communications protocols** — Uses industry standard communication protocols, including HTTP (insecure), HTTPS, SSH, SFTP, SMTP, NTP, Discovery Service, DHCP, DNS, ICMP, and IPv4.
 - **Supports LinkLicense®** — Extron [LinkLicense](#) enhances the capabilities of Extron Pro Series control systems.
 - **Two bidirectional RS-232 ports with software handshaking** — Captive screw ports that can control two RS-232 devices

- **One bidirectional RS-232/RS-422/RS-485 port with hardware and software handshaking** — Captive screw serial port that can communicate with one RS-232/RS-422/RS-485 serially controlled device.
- **Two IR/Serial ports for one-way control of external devices**
- **Four Digital I/O ports** — Allows for interfacing with other systems in the room.
- **Four relays for controlling room functions** — Enables control of lighting, screen settings, and other device functions.
- **eBUS port for connecting eBUS button panels and accessories**
- **Ethernet monitoring and control** — Manage, monitor, and control AV devices using a standard Ethernet network.
- **Supports popular BMS – Building Management System protocols, such as BACnet, KNX, and DALI** — These protocols allow for centralized monitoring and control of mechanical and electrical systems that include HVAC, lighting, power, fire, and security.
- **Integrated three port network switch** — Allows for easy connection of touchpanels or other network controlled devices.
- **Supports 10/100/1000Base-T**
- **Supports Ethernet-controllable devices** — Allows for control of multiple Ethernet-enabled AV devices such as displays, switchers, and sources.
- **Automatic clock synchronization allows touchpanel to display the accurate time and date**
- **Supports control system synchronization** — Synchronization will allow users to retain and recover the state of their configured endpoints in case of network or power failure.
- **Front panel port status indicators**
- **Multi-level password protection** — Allows security to be set based on user roles.
- **Fully customizable using Extron control system software** — GUI Designer can be combined with Global Configurator® Plus or Global Configurator Professional.
- **Create controller groups** — Allows multiple IP Link Pro control processors to be grouped together to function as one when configured with Global Configurator Professional.
- **Library of enhanced Extron Certified device drivers** — Device drivers allow Extron products to control various display and source devices, such as projectors, flat-panel displays, and Blu-ray players. Extron has produced fully tested Ethernet, serial, and IR device drivers.
- **HDMI audio embedding** — Two-channel audio signals can be embedded onto the HDMI and DTP outputs.
- **HDMI audio de-embedding** — Embedded HDMI two-channel PCM can be extracted for routing and further processing. Embedded multi-channel bitstream formats are routed with the video to the HDMI and DTP outputs.
- **Output volume control** — The DTP CrossPoint 84 4K provides master volume control for the variable line level and amplified audio outputs, as well as a separate control for mic volume.
- **Audio input gain and attenuation** — Gain or attenuation can be adjusted for each two-channel audio input to eliminate noticeable differences when switching between sources.
- **Audio breakaway** — Provides the capability to break two-channel audio away from its corresponding video signal and route to the audio outputs, allowing the audio and video signals from one source to be switched to different destinations.
- **S/PDIF audio output** — The DTP CrossPoint 84 4K includes an S/PDIF output for two-channel PCM audio or encoded bitstream audio for Dolby® or DTS® multi-channel surround sound.

- **Four mic/line inputs with 48 volt phantom power** — Four mic or line level audio sources can be independently mixed with program audio. Selectable 48 volt phantom power allows the use of condenser microphones.
- **Integrated audio digital signal processor with ProDSP™ 32/64-bit floating point signal processing** — The DTP CrossPoint 84 4K features 32/64-bit floating point audio DSP processing, which maintains very wide dynamic range and audio signal transparency, to simplify management of gain staging while reducing the possibility of DSP signal clipping.
- **Four channels of AEC - acoustic echo cancellation** — The DTP CrossPoint 84 4K includes four independent channels of high performance AEC, as well as selectable noise cancellation. Extron AEC features advanced algorithms that deliver fast echo canceler convergence for optimal intelligibility in situations that challenge AEC performance, including double talk and the use of wireless microphones at the near end.
- **Automixer with eight groups** — The DTP CrossPoint 84 4K features an automixer with gated and gain sharing modes for managing up to eight groups of microphone signals. Gating threshold, signal level reduction, and timing parameters are user adjustable per channel, allowing for fine tuning to avoid the "chopped" sound characteristic of a traditional automixer when a mic is gated off.
- **Digital audio expansion port provides interfacing to an Extron DMP 128 processor for audio system scalability** — An expansion port allows the DTP CrossPoint 84 4K and any DMP 128 model to be linked together via a single shielded CAT 6 cable for a 16x16 I/O channel transport between devices. This allows for audio system scalability with expanded audio processing and signal routing capabilities.
- **Mic ducking** — Automatically reduces program audio when a microphone or other incoming audio signal is detected, replacing the need for a separate audio ducking processor.
- **Studio grade 24-bit/48 kHz analog-to-digital and digital-to-analog converters** — Professional converters fully preserve the integrity of the original audio signal.
- **Low latency DSP processing** — The DTP CrossPoint 84 4K features very low, deterministic latency from input to output, regardless of the number of active channels or processes. While latency increases marginally in channels with AEC enabled, overall latency remains extremely low. This keeps audio in sync with video, and prevents distractions to presenters or performers resulting from delayed live audio.
- **DSP Configurator™ Software** — A powerful yet user-friendly PC based software tool for managing all audio operations of the DTP CrossPoint 84 4K. It enables complete setup and configuration of digital audio processing tools on the ProDSP platform, as well as routing and mixing.
- **Group masters** — The DTP CrossPoint 84 4K provides the capability to consolidate gain or mute control throughout the system. Gain or mute controls can be selected and added to a group master, which can then be controlled by a single master fader or mute control. Up to 32 group masters can be created.
- **Soft limits provide optimal group master adjustment range** — The group master volume range can be limited using soft limits to maintain optimal minimum and maximum levels when using external volume control. This prevents operators from over or under-adjusting levels when using Ethernet, USB, or RS-232 control. The DSP Configurator Software provides quick drag-and-drop adjustment of soft limits from the Group Controls screen.
- **32 DSP Configurator presets** — Using the DSP Configurator Software, any or all parameters for DSP processing, levels, AV matrix switching ties, and audio matrix mixing can be saved as presets.
- **Flexible matrix design provides output, virtual, and expansion routing options** — The DSP architecture of the DTP CrossPoint 84 4K employs an intuitive matrix design that offers substantial flexibility in routing, mixing, and processing audio input sources. An output matrix allows any of the four microphone inputs to be matrix mixed to any or all of the eight stereo outputs of the AV switcher block. If desired, any of the microphone inputs or AV switcher outputs can first be directed into a virtual matrix, which routes the inputs to eight virtual buses, before being mixed back into the output matrix. Virtual

buses allow inputs to be processed together as a group. The expansion inputs and outputs provide signal routing between the DTP CrossPoint 84 4K and a DMP 128 processor linked via the expansion port.

- **Building Blocks processor settings** — A collection of pre-designed processor settings optimized for a specific type of input or output device, such as microphones and Extron speakers, with preset levels, filters, dynamics, and more. Flexible Building Blocks are available on each I/O strip and allow system designers to fully customize and save their own Building Blocks, further streamlining audio system design and integration.
- **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** — All DTP CrossPoint 84 4K power amplifier options feature an Extron exclusive, highly efficient, advanced Class D amplifier design with CDRS - Class D Ripple Suppression, an Extron patented technology that provides a smooth, clean audio waveform and an improvement in signal fidelity over conventional Class D amplifier designs. CDRS eliminates the high frequency switching ripple characteristic of Class D amplifiers, a source of RF emissions which can interfere with sensitive AV equipment such as wireless microphones.
- **Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats**
- **HDCP compliant** — Ensures display of content-protected media and interoperability with other HDCP-compliant devices
- **User-selectable HDCP authorization** — Allows individual inputs to appear HDCP compliant or non-HDCP compliant to the connected source, which is beneficial if the source automatically encrypts all content when connected to an HDCP-compliant device. Protected material is not passed in non-HDCP mode.
- **Logo image keying and display** — A logo graphic may be placed at any position on any scaled video output as a foreground image. Logo graphics in BMP, JPG, PNG, or TIFF format may be uploaded to the unit. Full screen images up to 4096x2400 resolution can also be displayed to eliminate blank screens between presentations.
- **Seamless switching** — Seamless freeze/fade, cut through black, and fade through black transition effects are available at the scaled video outputs.
- **Key Minder® continuously verifies HDCP compliance for quick, reliable switching** — Key Minder authenticates and maintains continuous HDCP encryption between input and output devices to ensure quick and reliable switching in professional AV environments, while enabling simultaneous distribution of a single source signal to one or more displays.
- **EDID Minder® automatically manages EDID communication between connected devices** — EDID Minder ensures that all sources power up properly and reliably output content for display.
- **SpeedSwitch® Technology provides exceptional switching speed for HDCP-encrypted content**
- **HDCP authentication and signal presence confirmation** — Provides real-time verification of HDCP status for each digital video input and output. This allows for simple, quick, and easy signal and HDCP verification through RS-232, USB, or Ethernet, providing valuable feedback to a system operator or helpdesk support staff.
- **HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display** — A full screen green signal is sent when HDCP-encrypted content is transmitted to a non-HDCP compliant display, providing immediate visual confirmation that protected content cannot be viewed on the display.
- **High performance, motion-adaptive deinterlacing for signals up to 1080i** — The Extron exclusive scaling engine features highly accurate, motion adaptive deinterlacing for all interlaced signals up to

1080i. It ensures absolute detail and fidelity in the reconstructed progressive video frames, such as 1080p/24 content.

- **HDMI to DVI Interface Format Correction** — Automatically enables or disables embedded audio and InfoFrames, and sets the correct color space for proper connection to HDMI and DVI displays.
- **QS-FPC™ - QuickSwitch Front Panel Controller with tri-color backlit buttons** — Provides a discrete button for each input and output, allowing for simple, intuitive operation. Buttons can be custom labeled for easy identification. The buttons illuminate red, green, or amber depending on function, for ease of use in low light environments.
- **View I/O mode** — Users can easily view which inputs and outputs are actively connected.
- **Global presets** — Frequently used I/O configurations may be recalled either from the QuickSwitch Front Panel Controller, Ethernet, USB, or RS-232 serial control.
- **Output muting control** — Provides the capability to mute one or all outputs at any time. This allows, for example, content to be viewed on a local monitor prior to appearing on the main presentation display.
- **Aspect ratio control** — For the scaled DTP outputs, the aspect ratio of the video can be controlled by selecting a FILL mode, which provides a full screen output, or a FOLLOW mode, which preserves the original aspect ratio of the input signal.
- **Auto Input Memory** — When activated for the scaled DTP outputs, the unit automatically stores size, position, and picture settings based on the incoming signal. When the same signal is detected again, these image settings are automatically recalled from memory.
- **Output Standby Mode** — The unit can be set to automatically mute video and sync output to the display device when no active input signal is detected. This allows the projector or flat-panel display to automatically enter into standby mode to save energy and enhance lamp or panel life.
- **Picture controls for brightness, contrast, color, tint, detail, as well as horizontal and vertical positioning, and sizing - DTP outputs**
- **User presets** — Memory presets are available for each input to store and recall optimized image settings.
- **Internal video test patterns for calibration and setup** — The unit offers several video test patterns for the scaled DTP outputs, to facilitate proper system setup and calibration of display devices.
- **Automatic input cable equalization to 100 feet (30 meters) at 1080p/60 with 8-bit color when used with Extron HDMI Pro cables** — Actively conditions incoming HDMI signals to compensate for signal loss when using long cables, low quality cables, or source devices with poor HDMI signal output. 4K and 2560x1600 @ 60 Hz resolutions are equalized to 50 feet (15 meters).
- **Automatic HDMI output reclocking** — Reshapes and restores timing of digital video signals at each HDMI output, eliminating high frequency jitter to ensure reliable transmission over long cables.
- **Provides +5 VDC, 250 mA power on each HDMI output for powering external peripheral devices** — Power provided via an HDMI output eliminates the need of a separate power supply for the connected peripheral device.
- **Front panel security lockout** — Prevents unauthorized use in non-secure environments. In lockout mode, a special button combination is required to operate the matrix switcher from the front panel controller.
- **Ethernet monitoring and control** — Enables control and proactive monitoring over a LAN, WAN, or the Internet.
- **Built-in Web pages** — Enables the use of a standard browser for device monitoring and troubleshooting over an intuitive Web interface.

- **RS-232 control port** — Enables the use of serial commands for integration into a control system. Extron products use the SIS™ - Simple Instruction Set command protocol, a set of basic ASCII commands that allow for quick and easy programming.
- **Front panel USB configuration port** — Enables easy configuration without having to access the rear panel.
- **RJ-45 signal and link LED indicators for DTP ports** — Provides a means for validating signal flow and operation, allowing quick identification of connectivity issues.
- **Easy setup and commissioning with Extron's PCS - Product Configuration Software** — Conveniently configure multiple products using a single software application.
- **Rack-mountable 2U, full rack width metal enclosure**
- **Includes LockIt® HDMI cable lacing brackets**
- **Highly reliable, energy-efficient internal universal power supply** — The 100-240 VAC, 50/60 Hz, international power supply provides worldwide power compatibility with [high demonstrated reliability](#).