Compatible with Extron DTP-Enabled Products and XTP Matrix Switchers

The DTP2 CrossPoint 82 works in conjunction with all Extron DTP endpoints and DTP-enabled switching products to extend video, audio, and control signals. The ability to extend these signals and provide remote power to select DTP and DTP2 endpoints with just one, shielded CATx cable greatly simplifies system designs and installation. DTP2 products build upon the extensive DTP platform to reach new heights in professional AV integration. They incorporate advanced features and functions to let you create the sophisticated, yet simple to use systems that customers demand. All DTP2 products accommodate the full 18 Gbps data rate of HDMI 2.0 and support video signals up to 4K/60 with 4:4:4 color sampling. Analog audio inputs on all DTP2 products support audio embedding, and audio de-embedding is supported on analog audio outputs of all DTP2 products. The DTP2 CrossPoint 82 can also be integrated into XTP Systems® when working in tandem with XTP II CrossPoint matrix switchers, offering greater coverage for larger facilities already using facility-wide AV distribution.

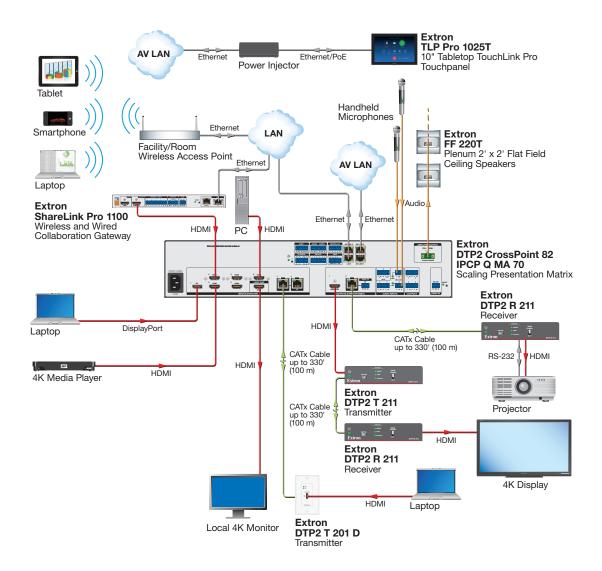


Training Room

Many training room applications require an AV system that supports a wide variety of resources, including 4K sources, wireless communication, and a projection system as well as a flat panel display. The DTP2 CrossPoint 82 provides highly reliable matrix switching and distribution to accommodate the various sources and displays.

The integrated DTP2 inputs and output on the DTP2 CrossPoint 82 are ideal for extending source signals from the lectern and to the projection system. Video content at 4K/60 4:4:4 resolution is sent to the wall-mounted display using the HDMl output and a DTP2 transmitter and receiver pair. This same content is sent to the projector connected to the matrix switcher's DTP2 output via a DTP2 receiver. While the same content is usually sent to both training room destinations, the independent HDMl and DTP2 outputs provide the flexibility to view separate source content on each display. The DTP2 output can also be configured for viewing content on an HDBaseT-enabled display, eliminating the need for a receiver and streamlining the design.

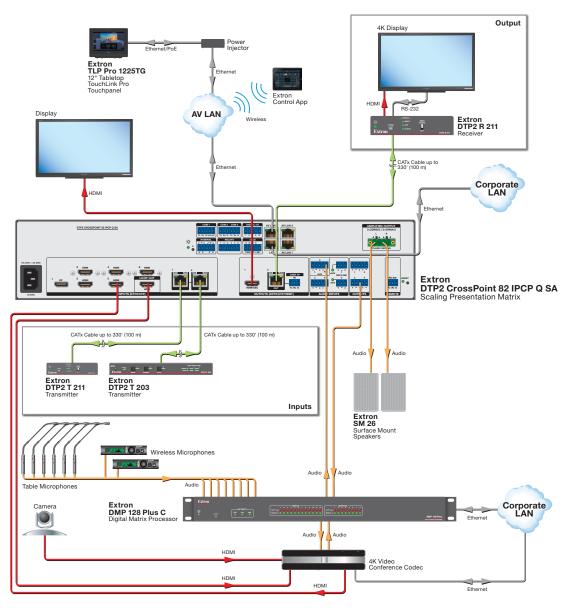
Serving as the central component for full audio system integration, the DTP2 CrossPoint 82 IPCP Q MA 70 features powerful DSP to support the distributed audio system. The internal DSP provides audio signal switching and processing for each of the source inputs and room microphones. The DTP2 CrossPoint 82 IPCP Q MA 70 includes an integrated 100-watt mono amplifier that feeds the 70-volt speaker system, providing ample sound reinforcement. As an additional integration convenience, source selection, transport control for a 4K media player and a ShareLink Pro 1100 wireless system, and audio system control are easily accessible with the TLP Pro 1025T TouchLink Pro Touchpanel that is connected to the matrix switcher's built-in control processor. This allows AV network control to be dedicated to an AV LAN for enhanced security and convenient management.



Videoconference

This room provides excellent audio and video performance for videoconferencing and local meetings. Installed video equipment such as displays, switchers, transmitters, and the VC codec are capable of 4K video resolution. Meeting participants sitting at the table can share content from their devices connected over HDMI or DisplayPort, and the DTP2 CrossPoint 82 scales lower resolution content to 4K/60 4:4:4 to feed the main display. When the room is in video conference mode, the matrix switcher enables video from the far side to be shown on either or both displays. Alternatively, one display can be switched to show local content. The DMP 128 Plus C ProDSP™ audio processor provides up to twelve channels of high-performance acoustic echo cancellation, as well as sophisticated microphone automixing and ducking. The DMP 128 processor feeds audio to the 100-watt Class D stereo amplifier built into the DTP2 CrossPoint 82 to drive the SM 26 two-way speakers, delivering a premium audio experience.

The DTP2 CrossPoint 82 IPCP Q SA has an integrated IP Link® Pro xi control processor connecting the AV system components over an isolated network, which is secured from outside interference or intrusion. Also, the built-in three-port AV LAN switch enables AV devices to be isolated from the corporate network, allowing them to receive firmware updates and be remotely monitored, managed, and controlled. End users can conveniently control system functions using the TLP Pro 1225TG 12" Tabletop TouchLink® Pro Touchpanel or using the Extron Control App installed on a mobile device.



4:4:4, or 4K @ 60 Hz, 4:2:0.

TRUE 4K SPECIFIC	ATION			
Max 4K Capabilities				
Resolution and Refresh Rate	Chroma Sampling	Max Bit Depth per Color		
4096 x 2160 at 60 Hz ² 3840 x 2160 at 60 Hz	4:4:4	8 bit		
4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4.4.4	10 bit ³		
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:0 ⁴	TO DIC		
Frame rate ¹	24, 25, 30, 50, 60, 1	20, 144, or 240 fps		
Chroma sampling ¹	4:4:4 and 4:2:2; 4:2:	0 (at input only)		
Color bit depth ¹	8 or 10 bits per color			
Signal type	DVI 1.0, HDMI 1.4 and 2.0, DisplayPort 1.2,			
	HDCP 1.4 and 2.3			
Max. video data rate ¹				
HDMI	18 Gbps (6 Gbps per color)			
DisplayPort	21.6 Gbps (5.4 Gbps per lane)			
NOTE: • ¹ Subject to the maximum data	a rate limit. Use our calculator	at www.extron.com/8Kdatarate to		
determine video parameters supported b • 24096 x 2160/50-60 at 4:4:4 is availa	,	Port connections.		
• 3DTP2 and XTP are 8 bits per color for • 4 4:2:0 sub-sampling is supported at ir				
NOTE: DTP2 ports are backwards-com		or resolutions up to 4K @ 30 Hz,		

VIDEO INPUT	
Number/signal type	1 DisplayPort 5 HDMI/DVI 1 HDMI/DVI loop-out, configurable (non-scaled) 2 DTP2/XTP-configurable
Connectors	1 female DisplayPort 5 female HDMI type A 1 female HDMI type A loop-out 2 female RJ-45
Horizontal frequency	15 kHz to 270 kHz for resolutions up to 18 Gbps
Vertical frequency	24 Hz to 240 Hz for resolutions up to 18 Gbps
Resolution range	640x480 @ 60 Hz through 4096x2160 @ 60 Hz with 4:4:4 chroma sampling Includes 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2K, and 4K.
VIDEO PROCESSING	
Digital sampling	8 or 10 bits per color; 600 MHz pixel clock maximum
Colors	1.07 billion (10 bit 4:4:4 processing)
VIDEO OUTPUT	
Number/signal type	1 HDMI/DVI (non-scaled) 1 DTP2/XTP/HDBT, configurable (scaled)
Connectors	1 female HDMI type A 1 female RJ-45
Peripheral device power	225 mA per output (HDMI and loop outputs only)
Scaled resolution	640x480 ⁸ , 800x600 ⁸ , 1024x768 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1280x1024 ⁸ , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ⁸ , 1400x1050 ⁸ , 1600x900 ⁸ , 1680x1050 ⁸ , 1600x1200 ⁸ , 1920x1200 ⁸ , 2048x1200 ⁸ , 2048x1536 ⁸ , 2560x1080 ⁸ , 2560x1440 ⁸ , 2560x1600 ⁸ , 3840x2160 ^{1,2,3,4,5,6,7,8} , 4096x2160 ^{1,2,3,4,5} , and Custom 1-8 480p ^{7,8} , 576p ⁶ , 720p ^{3,4,5,6,7,8} , 1080j ^{8,7,8} , 1080p ^{1,2,3,4,5,6,7,8} , 2K ^{1,2,3,4,5,6,7,8} , 123,98 Hz, ² 24 Hz, ³ 25 Hz, ⁴ 29.97 Hz, ⁵ 30 Hz, ⁶ 50 Hz,
	759.94 Hz, *24 Hz, *25 Hz, *29.97 Hz, *30 Hz, *50 Hz, 759.94 Hz, *60 Hz *Available to a DTP2 Rx

AUDIO	
Gain	Unbalanced output: -6 dB; balanced output: 0 dB
Frequency response	20 Hz to 20 kHz, ±0.5 dB
THD + Noise	<0.1%, 20 Hz to 20 kHz at nominal level
S/N	>90 dB at maximum balanced output (unweighted)
Supported formats	1004
Analog de-embedding	LPCM up to 2.0/24-bit/96 kHz
HDMI pass-through	LPCM up to 7.1/24-bit/192 kHz, Dolby Atmos, Dolby
	TrueHD, and Dolby legacy formats DTS:X, DTS-HD Master Audio, DTS 96/24, and DTS
	legacy formats
ALIDIO INDUT	logacy formats
AUDIO INPUT	
Number/signal type	2 stereo line level, balanced or unbalanced
	2 mono mic/line level, balanced or unbalanced, (with available phantom power)
	6 stereo, de-embedded from HDMI/DisplayPort (PCM only)
	2 DTP2/XTP (de-embedded HDMI—PCM only, or remote
	unbalanced analog*)
	*Available only in DTP mode
Connectors	(2) 3.5 mm, 5 pole captive screw for line
	(2) 3.5 mm, 3 pole captive screw for mic/line
	5 female HDMI type A
	1 female DisplayPort
	2 RJ-45 female
Input gain adjustment	Line inputs: -18 dB to +24 dB in 0.1 dB steps, adjustable
	per input
	LPCM-2Ch inputs: -18 dB to +24 dB in 0.1 dB staps,
	adjustable per input Mic/line inputs: -18 dB to +60 dB in 0.1 dB steps,
	adjustable per input
DC phantom power	+48 VDC ±10% (can be switched on or off per mic/line
Do phantom power	input)
AUDIO OUTPUT — LINE OUT	1-7
Number/signal type	2 steren or 4 mono, halanced/unhalanced
Number/signal type	2 stereo or 4 mono, balanced/unbalanced 2 HDML embedded (Loop Out and HDMLOut 1 do not
Number/signal type	2 HDMI, embedded (Loop Out and HDMI Out 1 do not
Number/signal type	
Number/signal type	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.)
Number/signal type	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode
Number/signal type Connectors	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*)
·	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A
Connectors	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45
·	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps
Connectors Output volume range	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1)
Connectors	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1)
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total)
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG.
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG.
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models Amplifier type	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum Class D
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models Amplifier type Output power SA models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum Class D 25 watts per channel, 8 ohms, 1 kHz, 0.1% THD, or 50 watts per channel, 4 ohms, 1 kHz, 0.1% THD
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models Amplifier type Output power SA models MA 70 models	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum Class D 25 watts per channel, 8 ohms, 1 kHz, 0.1% THD, or 50 watts per channel, 4 ohms, 1 kHz, 0.1% THD 100 watts (rms) @ 70 V, 1 kHz, 0.1% THD
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models Amplifier type Output power SA models MA 70 models Protection	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum Class D 25 watts per channel, 8 ohms, 1 kHz, 0.1% THD, or 50 watts per channel, 4 ohms, 1 kHz, 0.1% THD 100 watts (rms) @ 70 V, 1 kHz, 0.1% THD Clip limiting, thermal, short circuit, DC output
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models Amplifier type Output power SA models MA 70 models Protection Frequency response	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum Class D 25 watts per channel, 8 ohms, 1 kHz, 0.1% THD, or 50 watts per channel, 4 ohms, 1 kHz, 0.1% THD 100 watts (rms) @ 70 V, 1 kHz, 0.1% THD Clip limiting, thermal, short circuit, DC output 20 Hz to 20 kHz, -3 dB to +1 dB @ 1 W
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models Amplifier type Output power SA models MA 70 models Protection Frequency response THD + Noise	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum Class D 25 watts per channel, 8 ohms, 1 kHz, 0.1% THD, or 50 watts per channel, 4 ohms, 1 kHz, 0.1% THD 100 watts (rms) @ 70 V, 1 kHz, 0.1% THD Clip limiting, thermal, short circuit, DC output 20 Hz to 20 kHz, -3 dB to +1 dB @ 1 W <0.1% @ 1 kHz, 3 dB below clipping
Connectors Output volume range AUDIO OUTPUT — POWER AMP Number/signal type SA models MA 70 models Connectors SA models MA 70 models NOTE: The 5 mm screw lock captive screw Load impedance SA models MA 70 models Amplifier type Output power SA models MA 70 models Protection Frequency response	2 HDMI, embedded (Loop Out and HDMI Out 1 do not support breakaway or audio DSP.) 1 DTP2/XTP/HDPT (embedded digital, and remote balanced/unbalanced analog*) *Available only in DTP mode (2) 3.5 mm, 5 pole captive screw 2 female HDMI type A 1 female RJ-45 0 to -100 dB in 0.1 dB steps (Volume control not available on loop out or HDMI output 1) LIFIER — IPCP MODELS ONLY 1 stereo (default) or 2 mono (2 channels total) 1 mono, 70 V line (1) 5 mm, 4 pole, screw lock captive screw (1) 5 mm, 2 pole, screw lock captive screw connector accepts wires of 22 AWG to 12 AWG. 4 ohms minimum 50 ohms minimum Class D 25 watts per channel, 8 ohms, 1 kHz, 0.1% THD, or 50 watts per channel, 4 ohms, 1 kHz, 0.1% THD 100 watts (rms) @ 70 V, 1 kHz, 0.1% THD Clip limiting, thermal, short circuit, DC output 20 Hz to 20 kHz, -3 dB to +1 dB @ 1 W

SPECIFICATIONS

COMMUNICATIONS	
Serial control port	1 bidirectional RS-232, 3.5 mm, 3 pole captive screw
	connector (rear panel)
USB control port	1 female mini USB B (front panel)
Ethernet	
Connector	1 female RJ-45*
	*IPCP models use IPCP Ethernet ports.
Ethernet data rate	10/100/1000Base-T, half/full duplex with autodetect
Ethernet protocol	ARP, ICMP (ping), IP, TCP, DHCP, HTTP, Telnet
Program control	Extron Product Configuration Software (PCS) program
	for Windows®
	Extron Simple Instruction Set (SIS™)
	Microsoft® Internet Explorer®
COMMUNICATIONS	
IPCP Pro Control Processor with AV LA	N — IPCP models only
Control processor	1000 0 077140
IPCP Q models	IPCP Pro 355MQ xi
Memory SDRAM	
SUNAM IPCP () models	2 GB
01 4 11100010	2 db
Flash IPCP Q models	8 GB
Software and control options	0 UD
Configuration software	Global Configurator® Plus and Professional for Windows®
Programming software	Global Scripter®
Control applications	GlobalViewer®, eBus®, TouchLink® for Web, Touchlink for
Control applications	iPad®, or TouchLink Pro touchpanels
Resource management software	GlobalViewer® Enterprise
Utilities	Toolbelt, embedded web page
Hardware user interface	roonser, embedded web page
Hardware	TouchLink® Pro touchpanels, NBP button panels, or eBUS
. Martin o	button panels
Ethernet control	record process
Network interface controllers (NICs)	2: 1 LAN, 1 AV LAN
AV LAN network switch	1 unmanaged 3 port switch
Connectors	
LAN	1 female RJ-45
AV LAN	3 female RJ-45
Ethernet data rate	10/100/1000Base-T, half/full duplex with autodetect
Protocols	DHCP, DNS, HTTP, HTTPS, ICMP, IEEE 802.1X, NTP, SFTP,
	SMTP, SNMP, SSH, TCP/IP, UPD/IP
Serial	
Quantity/type	1 bidirectional RS-232, RS-422, RS-485 (port 1)
21.5.114	2 bidirectional RS-232 (ports 2 and 3)
Digital I/O	4 11 11 11 11 11 11 11 11 11 11 11 11
Quantity/type	4 digital input/output (configurable)
Digital inputs	0.1-0.4.1/0.0 -
Input voltage range	0 to 24 VDC, clamped at +30 VDC
Digital outputs	250 mA sink from 24 VDC max.
IR/serial	0 11 18 11 120 000 / 514
Quantity/type	2 programmable: unidirectional RS-232 (±5 V), or TTL lev
Dalay	(0 to 5 V) infrared (carrier and non-carrier) up to 300 kHz
Relay	A parmally open relave
	4 normally open relays
Quantity/type Relay control contact rating	24 VDC, 1 A

eBUS control		
eBUS control ports	(1) 3.5 mm captive screw connector, 5 pc	ole (uses 4 notes
Recommended cable type	Extron STP20-2/1000 or STP20-2P/1000	
eBUS power output	6 watts	o dubio
COMMUNICATIONS	o matto	
external device (RS-232/IR over D	TD2/YTD/HDRT)	
Serial control pass-through ports	DTP2 Tx/XTP matrix to DTP2 CrossPoint 8	RO.
contai conta or passo an ough porto	RS-232 can be transmitted to and from D	
	matrix via Ethernet insertion.	711 2 1707(11
	DTP2 CrossPoint 82 to DTP2/HDBT Rx/XT	TP matrix:
	RS-232 can be transmitted to and from D	TP2 Rx/HDBT
	Rx/XTP matrix via Ethernet insertion.	
Baud rates	Up to 115200 baud	
Protocol	6 to 8 data bits	
	1 or 2 stop bits	
	Even or odd parity, no parity	
ID control mass therewell would	Flow control = XON, XOFF, none	0 mala
IR control pass-through port	DTP2 CrossPoint 82 to TP Rx: (1) 3.5 mm screw connector	i, 3 pole captive
	TTL level (0 to 5 V) modulated infrared co	ntral from
	30 kHz up to 60 kHz	IIII OI II OI II
IR control pin configuration	1 = Tx, 2 = Rx, 3 = Gnd	
GENERAL		
Power supply	Internal	
· · · · · · · · · · · · · · · · · · ·	Input: 100-240 VAC, 50-60 Hz	
Power consumption		
Full power		
DTP2 CrossPoint 82	94 watts	
DTP2 CrossPoint 82 IPCP SA		
	127 watts	
DTP2 CrossPoint 82 IPCP MA 70	126 watts	1400/ 1- 000/
	126 watts Storage: -40 to +158°F (-40 to +70°C) /	10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing	
DTP2 CrossPoint 82 IPCP MA 70	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) /	
DTP2 CrossPoint 82 IPCP MA 70	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing	
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) /	
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front)	
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left	
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front)	
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front)	
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left	
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front)	/ 10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets	/ 10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full i	/ 10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full right with the first with th	/ 10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 Product warranty	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full right (44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full right (89 mm H x 444 mm W x 267 mm D)	/ 10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 Product warranty Everlast power supply warranty	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full r (44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full R (89 mm H x 444 mm W x 267 mm D) 3 years parts and labor	/ 10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 Product warranty	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full r (44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full R (89 mm H x 444 mm W x 267 mm D) 3 years parts and labor	/ 10% to 90%,
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 Product warranty Everlast power supply warranty	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full r (44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full R (89 mm H x 444 mm W x 267 mm D) 3 years parts and labor	rack wide)
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Product warranty Everlast power supply warranty NOTE: All nominal levels are at ±1	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full to 44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full to 48 mm H x 444 mm W x 267 mm D) 3 years parts and labor 7 years parts and labor	/ 10% to 90%, rack wide)
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Product warranty Everlast power supply warranty NOTE: All nominal levels are at ±14 Model	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full to 44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full to 48 mm H x 444 mm W x 267 mm D) 3 years parts and labor 7 years parts and labor 7 years parts and labor	rack wide) Part number 60-1812-01
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Product warranty Everlast power supply warranty NOTE: All nominal levels are at ±11 Model DTP2 CrossPoint 82	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full to (44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full to (89 mm H x 444 mm W x 267 mm D) 3 years parts and labor 7 years parts and labor 7 years parts and labor 0%. Version Description Standard Model	rack wide) Part number 60-1812-01 60-1812-92
DTP2 CrossPoint 82 IPCP MA 70 Temperature/humidity Cooling DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Mounting Rack mount Enclosure dimensions DTP2 CrossPoint 82 DTP2 CrossPoint 82 IPCP models Product warranty Everlast power supply warranty NOTE: All nominal levels are at ±11 Model DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82 DTP2 CrossPoint 82	126 watts Storage: -40 to +158°F (-40 to +70°C) / noncondensing Operating: +32 to +122°F (0 to +50°C) / noncondensing 2 fans, air flows from right to left (when viewed from the front) 1 fan, air flows from right to left (when viewed from the front) Yes, with included, preinstalled brackets 1.75" H x 17.5" W x 10.5" (1U high, full to (44 mm H x 444 mm W x 267 mm D) 3.50" H x 17.5" W x 10.5" D (2U high, full to (89 mm H x 444 mm W x 267 mm D) 3 years parts and labor 7 years parts and labor 7 years parts and labor O%. Version Description Standard Model Control Processor and Stereo Amp	/ 10% to 90%, rack wide) Il rack wide) Part number

For complete specifications, please go to www.extron.com Specifications are subject to change without notice.

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