



PROPOSAL FOR AUDIO-VISUAL SERVICES

BEAZLEY ROOM UPGRADES

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STAGE FRONT a better plan for AV

April 11, 2025

City of Augusta IT Department 535 Telfair Street Bldg 2000 Augusta, GA 30901 706.821.1571 horne@augustaga.gov

Attn: Reggie Horne, CGCIO

Ref: Beazley Room AV Upgrade

Dear Reggie,

Attached please find our proposal for the above.

Please call if we can help with anything.

Best regards,

Tommy LaRue

PROPOSAL FOR SERVICES



PART I - SCOPE

Summary: Stage Front has been asked for a proposal to upgrade the AV system in the Beazley Room with the purpose of stabilizing and improving performance. The original system has been in use since 2015, and some components have passed the timeframe for repair or service and should be replaced. Additional components and functionality will be added to meet the expanded needs of users of the space. The following will highlight the features of our proposed solution.

VIDEO

- Replace (2) wall plate HDMI over CAT5 transmitters with dual HDMI input transmitters
 - These will fit in existing back box
 - Mic input connector will remain
- (2) new HDMI over CAT5 receiver wall plates for portable monitors
 - Owner to provide portable monitors
 - Plates to be installed at locations TBD
- (1) new HDMI over CAT5 receiver wall plate for Press Feed
 - o This will be installed at the rear of the room by the storage room
- (1) new 4-ouput HDMI over CAT5 distribution amplifier to provide these new outputs
- (1) new 11,000 lumen laser projector & lens
 - WUXGA resolution
 - New mount & hardware
 - o Existing HDMI over CAT5 receiver and cabling will remain
- existing motorized projection screen will remain

AUDIO

- (1) new audio wall plate for Press Feed
 - o This will be installed at the rear of the room by the storage room
 - Audio will also be embedded on the HDMI Press Feed connection
- All other audio components will remain. The system will be tested and re-aligned

CONTROL

- (1) 7" LCD color touch panel for AV control
 - Will replace button panel
 - Will mount to existing 2-gang back box
- (1) new control switch
- (1) new control interface for existing motorized projection screen

RACK

- Existing equipment rack will remain
- (1) new UPS

PROPOSAL FOR SERVICES (cont.) STAGE FRONT



PART I - SCOPE

EQUIPMENT LIST

Qty	Item & Description
1	Barco G62-W11
	11,000 lumen 1-Chip DLP Laser Projector
1	Barco R9832756
	G LENS (WUXGA 1.52-2.92:1)
4	C2G C2G10377
	6ft HDMI Cable
1	CHIEF VCMU
	Projector Mount
1	CyberPower OR1000LCDRM1U
	Rack Mount UPS
2	Extron 60-1365-63
	Two Input DTP Transmitter Wall Plate for HDMI, White
1	Extron 60-1437-01
	Four Output DTP Twisted Pair Distribution Amplifier
3	Extron 60-1531-13
	DTP Receiver Wall Plate for HDMI, White
1	Extron 60-1563-02
	7" Touch Panel, Black or White
1	Extron 60-1911-01
	IPCP Pro 250 xi Control Processor
1	Extron 70-971-01
	Back Box for the TLP Pro
2	Monoprice 24360
	10ft CAT5 Patch Cable
8	Platinum Tools PLT100023_XX
	Shielded CAT5 Connector
1	Radio Design Labs (RDL) D-XLR3F
	Wall Plate w/ XLR Audio Connection
1	RCI Custom 2-Gang
	2-Gang Wall Plate
1	TP-Link TL-SG105MPE
	5-Port Gigabit Switch
200	Windy City Wire 22-02SP-BLK
	22 AWG Shielded Twisted Pair Audio & Control Cable
200	Windy City Wire CAT6SP-BLK
	23 AWG Shielded 4-Twisted Pair CAT6 Cable

NOTES & EXCEPTIONS

- We will require Facilities assistance for cutting into walls for new wall plate locations
- We may need assistance with cable pathways for new wall plate locations
- We will provide details on what is required

PROPOSAL FOR SERVICES (cont.) STAGE FRONT a better plan for AV



PART II - PRICING & ACCEPTANCE

Component	Price
AV Upgrades	\$40,357.00
* Sales Tax (owner is tax exempt)	\$0.00
Total System Investment	\$40,357.00
Optional Support: Annual Complete Maintenance Agreement Price To Be Provided and Integrated with Existing CMA Agreement for Other Spaces	

SUBMITTED BY:	ACCEPTED BY:
Tommy LaRue, April 11, 2025	Name, Date

PROPOSAL FOR SERVICES (cont.)



TERMS OF SERVICE

Please Note: Pricing includes consulting, engineering, project management, equipment, shipping, delivery, installation, programming, commissioning, training, and one-year warranty. Necessary permits are not included and, if required, are the responsibility of the Owner. Sales tax is not included (owner is tax exempt).

This proposal is based on current manufacturer pricing and is good for 45 days. If, after acceptance of this proposal, Stage Front is notified of impending price increases we will arrange for early shipment of affected materials to a secured jobsite storage (by you) or to Stage Front warehouse, if you prefer. You will be responsible for secured storage at the jobsite of the materials unless you opt for storage at the Stage Front warehouse, in which case we will insure the materials until delivery. In either case, you will be invoiced for materials delivered. If storage at a bonded warehouse is required, you will bear that cost.

Delivery: Estimated at 8 – 10 weeks after receipt of order

FOB: Destination

Terms: 30% deposit, 40% upon receipt of equipment, 20% during installation, and 10% upon completion of

training

Prime Contractor agrees that if the cost of supplies/equipment used for a particular Task Order increase by more than 3% as a result of a change in federal law, including but not limited to any new or increased Federal excise tax or duty, Prime Contractor will request a price adjustment from the Customer and will pass the price adjustment to the Subcontractor. Subcontractor will provide Prime Contractor will all necessary documentation to support the adjustment request to the Customer. If approved by the Customer, Subcontractor may increase the price of the applicable Task Order by the commensurate amount. If the request is rejected, Stage Front reserves the right to terminate the task order and invoice for labor and materials utilized through the termination.

Supply Chain Notice

Unfortunately, the audiovisual and low-voltage industry is currently experiencing extensive supply chain issues as a result of the pandemic and its direct impact on materials, labor, and logistics. As a result, many key manufacturers have delayed shipping and are challenged in providing accurate and/or reliable information as it relates to product deliveries. Where there is a delay outside the control of the parties due to unavailability of goods, delay in delivery, or other unforeseen or remote contingencies, the parties agree that such a delay is not considered a breach of contract. The parties agree to use commercially reasonable efforts to perform the contract under the deadlines allowable by the market. Please contact your Systems Consultant or Project Manager for more information related to these circumstances.

Payment Terms

The total project cost outlined in this proposal is subject to a 2-4% processing fee if payment is made via credit card. This fee is to cover the cost incurred by Stage Front for processing credit card payments. Alternatively, payment can be made via check or electronic bank transfer to avoid this fee.



PART III - SERVICES

INSTALLATION SERVICES:

- Order, receive and deliver equipment to jobsite.
- Furnish, install, and terminate all low-voltage wiring for equipment in this proposal, as well as clearly and permanently label field wiring.
- Energize the system, program the control equipment, and demonstrate the operational system to the Owner.
- Remove all trash and debris related with Stage Front work.
- Provide training on the operation and maintenance of the system.

MANUAL:

Stage Front will supply electronic copies of instruction/maintenance manuals for the equipment.

WARRANTY:

Stage Front warrants this installation to the original purchaser to be free from defects in material and workmanship under normal use during the warranty period.

- Materials: Products will be repaired or replaced, at Stage Front's option, without charge for a period of 365 days after first beneficial use or completion of installation, whichever comes first.
- Labor: Products will be repaired or replaced, at Stage Front's option, without charge for a period of 365 days after first beneficial use or completion of installation, whichever comes first.

WORK REQUIRED BY OTHER TRADES:

- At designated locations, regulated clean 110VAC power with isolated ground
- All conduit, raceways, standard back boxes and line voltage wiring
- Any related phone and LAN systems and wiring

PROPOSAL FOR SERVICES (cont.) STAGE FRONT a better plan for AV



PART III - SERVICES

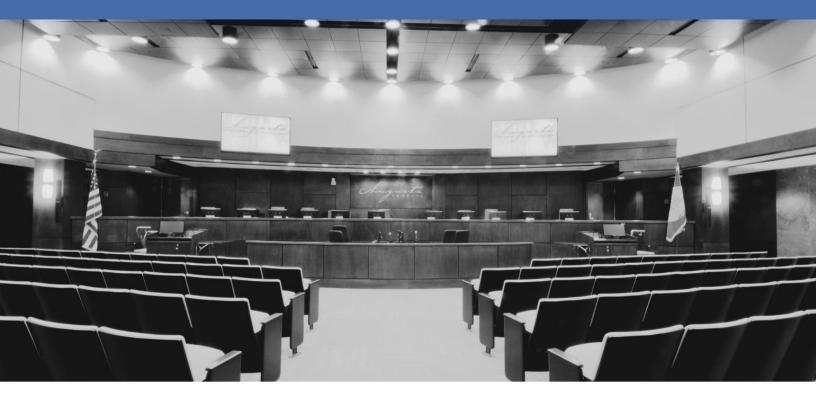
MANAGED SERVICES OFFERINGS

SUPPORT AGREEMENT FEATURE	STANDARD WARRANTY	PREVENTATIVE MAINTENANCE	COMPLETE MAINTENANCE
24/7 service & support	~	~	~
Remote access support	~	~	~
Manufacturer liaison services	~	~	~
Guaranteed response time		~	~
Preferred service status		~	~
Scheduled preventative maintenance		~	~
User training		~	~
Priority access to loaner equipment		~	~
Unlimited service calls			~
Unlimited telephone support			~
Unlimited parts & labor			~
Free control system upgrades			~
Free labor on hardware upgrades			~
Fixed annual pricing		~	~
Discounted materials		~	
Discounted service rate		~	





OUR EXPERIENCE



For over four decades, Stage Front has been at the forefront of designing and installing technical systems aimed at enhancing education, communication, and entertainment.

Our track record reflects a robust foundation built on technical design, streamlined processes, and unwavering financial stability, consistently ensuring timely project deliveries within allocated budgets.

With specialized expertise across various domains, our focus areas encompass Corporate Workspaces, Higher Education, Dental + Medical Education, Auditoriums + Theaters, and Athletics.

Discover the distinctive impact of Stage Front's expertise and experience in transforming spaces through innovative technical solutions.



OUR SERVICES



DESIGN

Consultation + Needs Analysis
Program Development
Design Development
Construction Documentation
Revit + BIM Modeling
EASE Audio Modeling
Acoustical Analysis + Design
User Interface Design
Bid Administration
Construction Administration

INTEGRATION

Project Management
Pre-Fabrication
Programming
In-House Testing
Systems Delivery + Installation
Alignment + Final Commissioning
Proof of Performance
User Training

SUPPORT

Warranty Support
Preventative Maintenance
Complete Maintenance
On-Site Sustaining Technicians
Remote Monitoring
Systems Training
Critical Inventory Management
Documentation Control

OUR PROCESS

- UNDERSTANDING THE CLIENT
 Conduct interviews, needs analysis, understand long-term
 client goals
- PROGRAM DEVELOPMENT Define scope, budget, and timeline
- 3 ENGINEERING + CONSTRUCTION DOCS

 Develop published infrastructure and comprehensive design package
- 4 PREFABRICATION + PROGRAMMING
 Configure devices, program control systems, test in-house
- 5 SYSTEMS INTEGRATION
 Deliver systems, provide field services for integration
- 6 COMMISSIONING + QUALITY ASSURANCE
 Test and tune, system demonstration, client approval



OUR PROJECTS



CAMP LEJEUNE MARINE SPECIAL OPERATIONS TRAINING COMPLEX, CAMP LEJEUNE, NC

PARTNER: NAVFAC ARCHITECTS



Stage Front designed and implemented AV systems for a three-story training center dedicated to deployment and expeditionary unit preparation. The facility encompasses a divisible classroom, two standalone classrooms, 12 collaboration spaces, one conference room, one training room, and one Sensitive Compartmented Information Facility (SCIF). The integrated systems cover video walls, presentations, secure and non-secure video conferencing, along with specialized features for the SCIF.

KIAWAH ISLAND TOWN HALL, KIAWAH ISLAND, SC PARTNER: LS3P ARCHITECTS



Stage Front spearheaded the design and installation of advanced audiovisual solutions for the expansive 18,000-square-foot municipal complex of the Town of Kiawah Island. The state-of-the-art Town Hall boasts council chambers for public meetings and court sessions, a spacious main lobby, offices, conference rooms, and additional facilities including a break room and a separate garage building, enhancing the town's infrastructure for efficient governance and community engagement.

OUR PROJECTS



CITY OF AUGUSTA COUNTY COMMISSION, AUGUSTA, GAPARTNERS: HEERY ARCHITECTS



Stage Front delivered state-of-the-art design and installation services for the Augusta Commission Chamber, Beazley Community Room, and IT training rooms. Our design-build integration aimed at creating a cutting-edge services audiovisual and control system, establishing a platform multimedia capable versatile large-format digital and analog presenting computer-based programs and content, including seamless integration with guest laptops.

GEORGIA PORTS AUTHORITY SECURITY OPERATIONS CENTER, SAVANNAH, GA

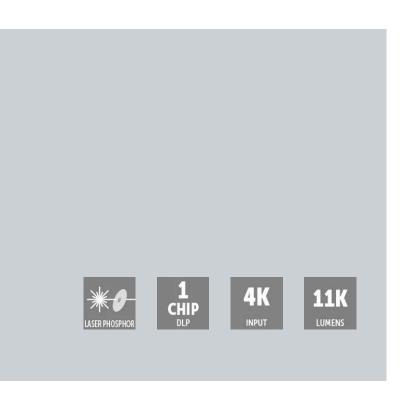
PARTNER: LS3P ARCHITECTS



Stage Front designed state-of-the-art AV systems for the Georgia Port Authority's revamped Security Operations Center. The comprehensive solution encompassed a centralized command center, serving as the nerve center for housing and dispatching security services for the nation's fourth-largest cargo port and the largest container terminal in the Western Hemisphere. Our tailored system empowers the security team to seamlessly monitor and promptly respond to incidents across the entirety of the Port's extensive properties.

G62-W11

11,000 lumens, WUXGA, DLP laser phosphor projector





- Great image quality
- Optimal integration capabilities
- 4K compatible and 3Dready
- Guaranteed service and support

The G62-W11 expand the single-chip offering with a quality WUXGA projector of 11.000 lumens. It opens up the possibilities to a wider range of applications while still relying on the valued Barco service and support.

The laser phosphor light source ensures great image quality, on the one hand, but also lower maintenance compared to most lamp-based projectors on the market. Thanks to Barco's Projector Toolset software, installing and managing your projector(s) can be done from the comfort of your own computer.

The G62 models enable HDMI[™] 2.0 input capabilities and higher bandwidth than its predecessors, which makes them 4K compatible and 3D capable to visualize your high-quality content at its best.

The projectors are available in black and fully white chassis, allowing you to choose the perfect fit for your specific environment. Their uniform compact size, the compatibility with other Barco products and the wide lens shift range enlarge the projectors flexibility.

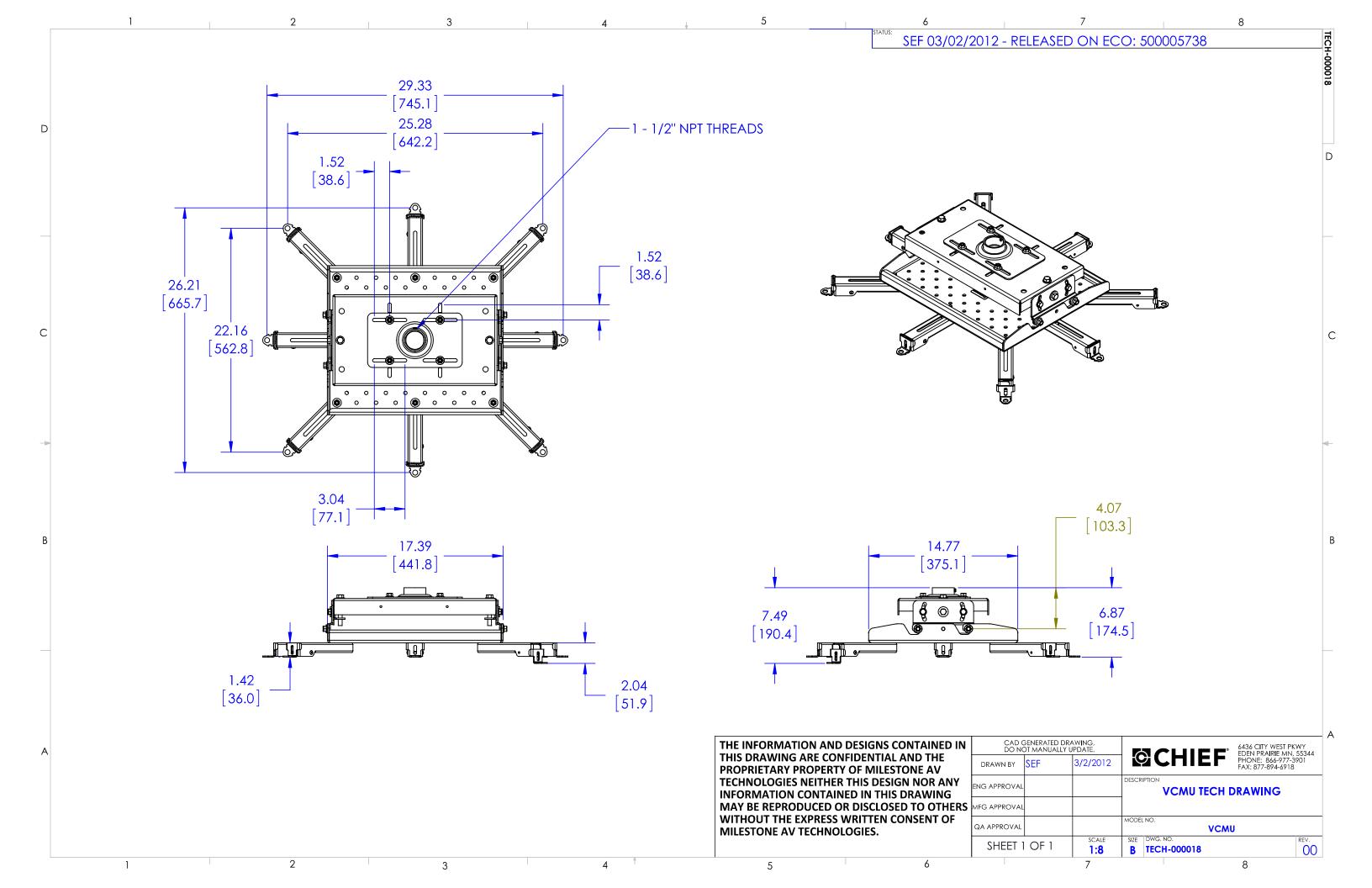


Product specifications	G62-W11
General specifications	
Projector type	Single chip DLP laser phosphor projector
Resolution	1,920 x 1,200 (WUXGA)
Brightness	10,000 ANSI lumens
	10,600 center lumens 11,000 ISO lumens
Brightness uniformity	90%
Contrast ratio	1,200:1 sequential; 6,000:1 dynamic; Extreme black: 750,000:1
Light source	Laser phosphor
Light source lifetime	Up to 20,000hrs
Aspect ratio	16:10
Orientation	360° rotation, no restrictions
Sealed DLP™ core	Yes
Color correction	Yes
CLO (constant light output)	Yes
Image processing	Embedded warp & blend possible via Ptoolset
3D	Active stereoscopic 3D
Lens type	G-lenses -0.36:1 / 0.37-0.4:1 / 0.65-0.75:1 / 0.75-0.95:1 / 0.95-1.22:1 / 1.22-1.53:1 / 1.52-2.92:1 / 2.90-5.50:1
Optical lens shift	Vertical up to 100%, depending on lens
	Horizontal up to 30%, depending on lens
	Motorized zoom and focus Motorized lens shift
	2x HDM TM In (version 2.0) (with locking screw) / 1x DVI-D (only support digital signal) / 1x HDBaseT / 1x 3D SYNC In / 1x
	3G-SDI
Input resolutions	Up to 4K @60Hz
	Refresh rates: 24Hz to 60Hz for WUXGA and 4K/4KUHD (4096 x 2160 / 3840 x 2160)
Software tools	4K input signals will be scaled to the projector's output resolution Projector Toolset and Insight Management Suite (IMS)
Control	IR, RS232, RJ45, 3.5mm phone jack for wired remote
Network connection	10/100 Ethernet, RJ45
Power requirements	100-240V / 50-60Hz
Power consumption	810W nominal, 970W maximum
Standby power	less than 0.5W
BTU per hour	2,747 BTU/h nominal; 2883 BTU/h maximum
Noise level (typical at 25°C/77°F)	35dB(A) -39dB(A) depending on the used mode
Operating temperature	0 ~ 40 °C (sea level)
Operating humidity	10 -85% RH, non-condensing
Storage temperature	-10 ~ 60 °C
Storage humidity	5-90% RH, non-condensing
Dimensions (WxLxH)	without feet: 484 x 529 x 195 mm / 19.1 x 20.8 x 7.7 inch
	with feet: 484 x 529 x 206 mm / 19.1 x 20.8 x 8.1 inch
Weight	without lens: 22.7 kg / 50.1 lbs
Standard accessories	Power cord, wireless remote control
Certifications	CE, FCC Class A, cTUVUS, CCC, EAC, KCC, RCM, BIS, BSMI
Warranty	Limited 3 years parts and labor

Last updated: 09 Jul 2024

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TLP Pro 725M

7" WALL MOUNT TOUCHLINK PRO TOUCHPANEL



The Extron TLP Pro 725M is a 7" wall mount TouchLink® Pro Touchpanel with many enhanced features. Extron redesigned this latest TouchLink Pro Touchpanel inside and out with a new, high-performance quad-core processor, eight times more memory, a higher resolution, 1024x600 edge-to-edge glass capacitive touchscreen built with scratch and smudge-resistant Corning® Gorilla Glass®. The TLP Pro 725M also features the convenience of PoE -Power over Ethernet, which allows it to receive power and communication over a single Ethernet cable.

- → 7" capacitive touchscreen with 1024x600 resolution and 24-bit color depth
- Newly designed inside and out for the ideal balance of performance and style
- Gorilla Glass® screen is tough, scratch, and smudgeresistant
- ▶ Faster, quad-core processing and eight times more memory
- ▶ Compatible with all IP Link Pro control processors
- Power over Ethernet provides power and communication over a single Ethernet cable
- Light sensor adjusts screen brightness as the ambient room lighting changes



DESCRIPTION

The **TLP Pro 725M** is a 7" wall mount touchpanel that offers stellar performance and superior design. Inside, there's a powerful new quad-core processor and eight times more memory feeding the high resolution 1024 x 600 edge-to-edge glass capacitive touchscreen. The touchscreen, itself, is our most durable yet - built with scratch and smudge-resistant Corning Gorilla Glass. Outside you'll find a stylish, ergonomic enclosure that will complement any contemporary presentation environment.

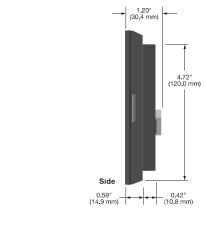
A host of familiar features provides elegant, simple operation, while PoE, Power over Ethernet streamlines integration by allowing the touchpanel to receive power and communication over a single Ethernet cable.

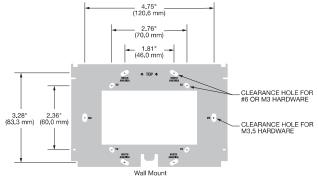
All TouchLink Pro touchpanels can be customized using Extron GUI Designer software. This powerful interface design software offers ready-to-use templates for a wide variety of rooms and presentation environments.

PANEL DRAWINGS









SPECIFICATIONS

DISPLAY			
Screen type		TFT Active matrix color LCD display	
Size		7" (17.8 cm), measured diagonally	
Resolution		1024x600	
Aspect ratio		Widescreen	
Color depth		24 bit, 16.7 million colors	
Contrast		700:1	
MEMORY			
SDRAM		2 GB	
Flash		4 GB	
	ION — ETHERNET		
	ION — ETHENNET		
Ethernet data rate		10/100/1000Base-T, half/full duplex with	
Ethernet protocol Software		DHCP, DNS, HTTP, HTTPS, ICMP, SFTP, SS	H, TCP/IP, UDP/IP
	240	Clabal Cantinggrater Disa and Drafacciona	I CIII Dagignar
Configuration softwar		Global Configurator Plus and Professiona	i, dui designer
Programming software	ale	Global Scripter	
Control apps	ant coffware	Extron Control, iGVE GlobalViewer Enterprise, iGVE	
Resource managem Utilities	ioni outwald	Toolbelt, Embedded web page	
		тоопрек, стпречией жер раде	
CONTROL — I	JSB		
Number/signal typ	e	1 high-speed USB 2.0 device	
USB standards		USB 2.0, USB 1.1, USB 1.0 compatible	
AUDIO OUTPU	JT		
Speaker output		1 mono, 89 dB Max. SPL @ 0.1 m	
Playback format(s		· · · · · · · · · · · · · · · · · · ·	
Container format	,	WAV (Microsoft RIFF)	
Encoding		LPCM (uncompressed)	
Audio channels		mono or stereo	
GENERAL			
	rom onto	Dower over Ethernet /Del 000 Oef elece	2)
Power input requir		Power over Ethernet (PoE 802.3af, class	3)
Auxiliary power o u USB	πρατ	5 VDC, 275 mA	
Temperature/humi	dity	Storage: -4 to +158 °F (-20 to +70 °C)	/
Tomporaturo/num	uity	5% to 90%, noncondensing	
		Operating: -4 to $+158$ °F (-20 to $+70$ °C) /
		20% to 90%, noncondensing	,,,
Mounting		Wall, furniture, or rack	
mounting		Trail, railleard, of radic	
Enclosure dimensi	ons	5.05" H x 7.24" W x 1.20" D	
		(128 mm H x 184 mm W x 30 mm D)	
Regulatory compli	ance	,	
Safety		CE, c-UL, UL	
EMI/EMC		CE, C-tick,FCC Class B, ICES, VCCI	
Environmental		Complies with the appropriate requirement WEEE.	nts of RoHS and
Warranty		3 years parts and labor; touchpanel displ	ay and overlay
Mandal	Wandan Book 191	components are covered for 1 year	Deal of the
Model	Version Description Black - Wall Mount		Part number
TLP Pro 725M TLP Pro 725M	White - Wall Mount		60-1563-02 60-1563-03
			00-1000-00
Optional Accessori			Dead 1
Model	Version Description	Dro 705M	Part number
RM 5	Rack Mount Kit for TLP		70-1137-02
SMK 2	TLP Surface Mount Kit -		70-1140-22
SMK 2 RWM 2	TLP Surface Mount Kit - TLP Recessed Wall Mou		70-1140-23
	TEL BECESSED WAILMOL	JIIL INIL	70-1141-23

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

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DTP T HWP 232 D

TWO INPUT DTP TRANSMITTER FOR HDMI WITH AUDIO EMBEDDING





The Extron DTP T HWP 232 D is a decorator-style transmitter that provides signal extension for up to two HDMI sources, sending HDMI, audio, and control up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP®-enabled products. The HDCP-compliant transmitter includes several integrator-friendly features in a convenient form factor that offers maximum placement flexibility.

- ► Transmits HDMI, control, and analog audio up to 230 feet (70 meters) over a shielded CATx cable
- ► Two HDMI inputs
- ► Auto-switching between inputs
- ► Supports computer and video resolutions up to 1920x1200, including 1080p/60 and 2K
- ► Analog stereo audio embedding
- ► Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- ▶ Independent analog audio inputs
- ► Bidirectional RS-232 and unidirectional IR pass-through for AV device control
- Remote power capability
- Supported HDMI specification features include data rates up to 6.75 Gbps, 3D, and HD lossless audio formats
- ► EDID Minder®
- Compatible with all DTP[®] 230 Series receivers and DTP-enabled products
- Mounts in an included two-gang decorator-style wallplate
- Highly reliable, energy-efficient external universal power supply included

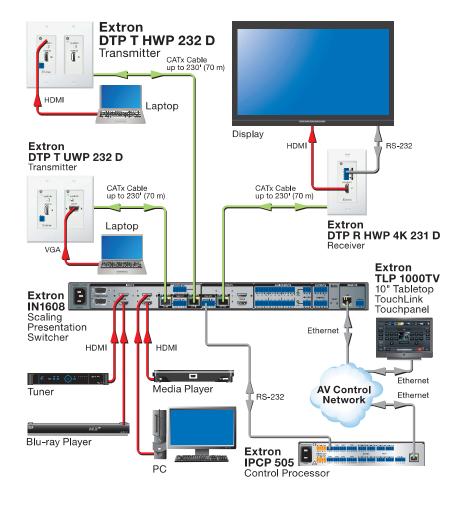


DESCRIPTION

The Extron **DTP T HWP 232 D** is a two input, decorator-style transmitter for sending HDMI, audio, and control up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP-enabled products. It is HDCP compliant and provides two HDMI inputs, both with independent analog stereo audio connections. The DTP T HWP 232 D supports video signals at resolutions up to 1920x1200, including 1080p/60 and 2K. The transmitter also offers many integrator-friendly features such as analog stereo audio embedding, EDID Minder, auto-switching between inputs and RS-232 remote control for simplified input selection, remote power capability, and bidirectional RS-232 and unidirectional IR pass-through for remote AV device control. The wall-mountable design of the DTP T HWP 232 D provides the convenience of placing input connections precisely where they are needed.

For added installation flexibility, the transmitter can be remotely powered over the shielded twisted pair cable by a DTP-enabled product. The DTP T HWP 232 D can be integrated with an Extron DTP CrossPoint® Presentation Matrix Switcher, or other DTP-enabled products to support sources at remote locations.

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO Maximum data rate		
THE RESERVE AND ADDRESS OF TAXABLE	<u> </u>	6.75 Gbps (2.25 Gbps per color)
Resolution range	<u>'</u>	Up to 1920x1200 or 1080p @ 60 Hz; 8 bit color depth 2048x1080p @ 60 Hz (2K)
VIDEO INPUT		20 10/10/00/00 00 112 (21.)
Connectors		2 female HDMI type A
	TION DETINEEN	··
	TION BETWEEN I	RANSMITTER AND RECEIVER
Signal type Connectors		1 DTP 230 output 1 female RJ-45 per unit for 1 cable connecting the
Connectors		transmitter and receiver
DTP signal		
Signal transmission of	distance	Up to 230' (70 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable
Cable requirements		Solid conductor, 24 AWG or better
Cable recommendati		400 MHz bandwidth STP cable
	DTP 24 shielded twisted p	pair cable is strongly recommended for optimal performance
AUDIO INPUT		
Number/signal type		
Analog audio (over D	TP)	2 stereo, unbalanced
Digital audio		2 embedded digital audio on DTP
	ions — Transmi	
Serial control port		RS-232 via (1) 3.5 mm, 5-pole captive screw connector
		for RS-232 control (±5 V) and contact closure input switching
Contact closure rer	note control	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port)
		switching (1) 3.5 mm, 5-pole captive screw connector
COMMUNICAT	IONS — EXTERNA	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port)
	IONS — EXTERNA -through port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH)
COMMUNICAT Serial control pass-	IONS — EXTERNA -through port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232
COMMUNICAT Serial control pass-	IONS — EXTERNA -through port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from
COMMUNICAT Serial control pass- IR pass-through co	IONS — EXTERNA -through port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz
COMMUNICAT Serial control pass- IR pass-through co	IONS — EXTERNA -through port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from
COMMUNICAT Serial control pass- IR pass-through co	IONS — EXTERNA -through port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External
COMMUNICAT Serial control pass- IR pass-through co	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz
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COMMUNICAT Serial control pass- IR pass-through co GENERAL Power supply Enclosure dimension Device	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
COMMUNICAT Serial control pass- IR pass-through co GENERAL Power supply Enclosure dimension Device Regulatory complia	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts Two (2.7" H x 3.5" W x 1.9" D [6.9 cm H x 8.9 cm W x 4.8 cm D])
COMMUNICAT Serial control pass- IR pass-through co GENERAL Power supply Enclosure dimension Device Regulatory complian Safety	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts Two (2.7" H x 3.5" W x 1.9" D [6.9 cm H x 8.9 cm W x 4.8 cm D]) c-UL, UL
COMMUNICAT Serial control pass- IR pass-through co GENERAL Power supply Enclosure dimension Device Regulatory complian Safety EMI/EMC	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts Two (2.7" H x 3.5" W x 1.9" D [6.9 cm H x 8.9 cm W x 4.8 cm D]) c-UL, UL AS/NZS, CE**, FCC Class A**, ICES, VCCI
COMMUNICAT Serial control pass- IR pass-through co GENERAL Power supply Enclosure dimension Device Regulatory complian Safety	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts Two (2.7" H x 3.5" W x 1.9" D [6.9 cm H x 8.9 cm W x 4.8 cm D]) c-UL, UL AS/NZS, CE**, FCC Class A**, ICES, VCCI Complies with the appropriate requirements of RoHS,
COMMUNICAT Serial control pass- IR pass-through co GENERAL Power supply Enclosure dimension Device Regulatory complian Safety EMI/EMC Environmental	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts Two (2.7" H x 3.5" W x 1.9" D [6.9 cm H x 8.9 cm W x 4.8 cm D]) c-UL, UL AS/NZS, CE**, FCC Class A**, ICES, VCCI Complies with the appropriate requirements of RoHS, WEEE
COMMUNICAT Serial control pass- IR pass-through co GENERAL Power supply Enclosure dimension Device Regulatory complian Safety EMI/EMC Environmental	IONS — EXTERNA -through port ntrol port	switching (1) 3.5 mm, 5-pole captive screw connector (connector is shared with RS-232 control port) L DEVICE (PASS-THROUGH) Bidirectional RS-232 TTL level (0 to 5 V) modulated infrared control from 30 kHz up to 60 kHz External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts Two (2.7" H x 3.5" W x 1.9" D [6.9 cm H x 8.9 cm W x 4.8 cm D]) c-UL, UL AS/NZS, CE**, FCC Class A**, ICES, VCCI Complies with the appropriate requirements of RoHS, WEEE

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

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DTP HD DA 4K 230

FOUR AND EIGHT OUTPUT DTP DISTRIBUTION AMPLIFIERS



DTP HD DA4 4K 230



DTP HD DA8 4K 230





The Extron DTP HD DA4 4K 230 and

DTP HD DA8 4K 230 provide signal extension and distribution to four or eight Extron DTP™-enabled products, sending HDMI, audio, and control up to 230 feet (70 meters) over shielded CATx cable. Both HDCP-compliant DTP distribution amplifiers include several integrator-friendly features that streamline installation and enable the reliable distribution of an HDMI source signal to multiple destinations within DTP Systems.

- ▶ Distributes HDMI plus control and analog audio up to 230 feet (70 meters) over shielded CATx cable
- Supports computer and video resolutions up to 4K, including 1080p/60 Deep Color
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- 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

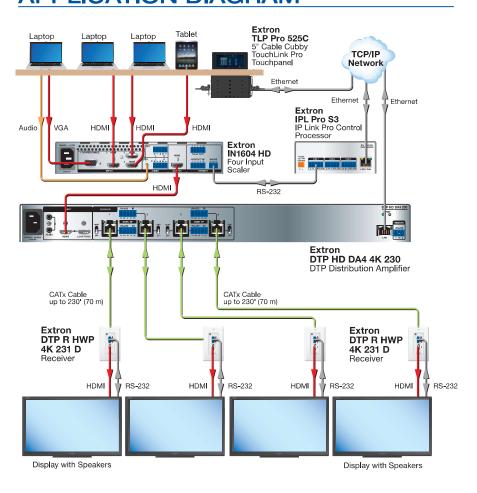


DESCRIPTION

The Extron **DTP HD DA4 4K 230** and **DTP HD DA8 4K 230** are distribution amplifiers that provide one HDMI input with loop-through, and either four or eight DTP outputs. Each twisted pair output sends HDMI, audio, and control up to 230 feet (70 meters) over shielded CATx cable to Extron DTP-enabled products. The DTP HD DA 4K 230 accepts analog stereo audio signals for simultaneous transmission over the same shielded CATx cable. It supports video signals at resolutions up to 4K, including 1080p/60 Deep Color. The DTP HD DA 4K 230 offers bidirectional RS-232 and IR pass-through at each DTP output, plus system level RS-232 control of AV devices via Ethernet insertion. It features remote powering of DTP receivers, EDID Minder, Key Minder, and selectable output muting.

To enhance and simplify integration, the DTP HD DA 4K 230 includes automatic input cable equalization and automatic color bit depth management. The DTP HD DA 4K 230 also features analog stereo audio loop-through for local audio system and monitoring needs. The DTP outputs can be muted independently via Ethernet or RS-232. Each twisted pair output also offers an HDBaseT output mode for compatibility with HDBaseT-enabled displays. The distribution amplifier is easily controlled via Ethernet, USB, or RS-232. The DTP HD DA 4K 230 can be integrated with Extron switchers, scalers, or other DTP-enabled products to provide multiple, simultaneous outputs for signage and presentation overflow room applications.

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION				
Max 4K Capabilities				
Resolution and Refresh Rate Chroma Sampling Max Bit Depth per Color				
4096 x 2160 at 30 Hz 3840 x 2160 at 30 Hz	4:4:4	8 bit		
4096 x 2160 at 60 Hz 3840 x 2160 at 60 Hz	4:2:0	O DIL		
Frame rate ¹	24, 25, 30, 50, or 60	fps		
Chroma sampling¹ 4:4:4, 4:2:2, or 4:2:0				
Color bit depth ¹ 8 bits per color				
Signal type HDMI 1.4, HDCP 1.4				
Max. video data rate 10.2 Gbps (3.4 Gbps per color)				
NOTE: ¹ Subject to the maximum data rate limit. Use our calculator at www.extron.com/8Kdatarate to				
determine video parameters supported by this data rate.				

1	
Connectors	1 female HDMI type A
VIDEO OUTPUT	
Number/signal type DTP HD DA4 4K 230 DTP HD DA8 4K 230	1 single link HDMI (Local Output) 4 DTP 230 8 DTP 230
INTERCONNECTION BETWEE	N TRANSMITTER AND RECEIVERS
Signal transmission distance DTP HD DA4/DA8 4K 230 1080p @ 60 Hz	Up to 230' (70 m) using shielded twisted pair (STP) cabl or XTP DTP 24 cable
4K/UHD @ 30 and 60 Hz	Up to 130' (40 m) using STP cable or XTP DTP 24 cable
Cable requirements	Solid conductor, 24 AWG or better
NOTE: Output mode signaling:	400 MHz bandwidth STP cable sted pair cable is strongly recommended for optimal performance log audio, RS-232 and IR, and remote power as RS-232 and IR
GENERAL	
Power supply	Internal Input: 100-240 VAC, 50-60 Hz
Enclosure dimensions	
DTP HD DA4 4K 230 DTP HD DA8 4K 230	1.75" H x 17.5" W x 10.6" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors) 1.75" H x 17.5" W x 10.6" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors)
DTP HD DA4 4K 230 DTP HD DA8 4K 230 Regulatory compliance	(4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors) 1.75" H x 17.5" W x 10.6" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors)
DTP HD DA4 4K 230 DTP HD DA8 4K 230 Regulatory compliance Safety	(4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors) 1.75" H x 17.5" W x 10.6" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors) CE, c-UL, UL
DTP HD DA4 4K 230 DTP HD DA8 4K 230 Regulatory compliance	(4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors) 1.75" H x 17.5" W x 10.6" D (1U high, full rack wide) (4.4 cm H x 44.4 cm W x 26.8 cm D, depth excludes connectors)

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



www.extron.com

DTP R HWP 4K 231 D

DTP RECEIVER FOR HDMI – DECORATOR-STYLE WALLPLATE







The Extron DTP R HWP 4K 231 D is a single-gang decorator-style receiver that works with Extron DTP®-enabled products to send HDMI, analog audio, and bidirectional control signals up to 230 feet (70 meters) over a shielded CATx cable. It is designed for efficient use at display locations in environments offering limited space. The HDCP-compliant receiver features a convenient one-gang form factor that offers maximum placement flexibility.

- Receives HDMI plus control and analog audio up to 230 feet (70 meters) over a shielded CATx cable
- Supports computer and video resolutions up to 4K
- ► HDCP 2.3 compliant
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, HD lossless audio formats, and CEC pass-through
- ▶ Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- Supports EDID and HDCP transmission
- Bidirectional RS-232 and IR passthrough for AV device control
- ▶ Remote power capability
- Compatible with all DTP[®] 230 Series transmitters and DTP-enabled products
- Highly reliable, energy-efficient external universal power supply included with Tx models

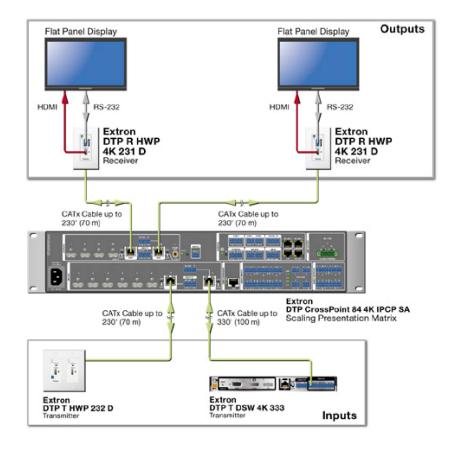


DESCRIPTION

The Extron **DTP R HWP 4K 231 D** is a single-gang decorator-style receiver that works with Extron DTP-enabled products to send HDMI, audio, and bidirectional RS-232 and IR signals up to 230 feet (70 meters) over a shielded CATx cable. The one-gang form factor provides maximum space efficiency in wall mount, floor box, and furniture mount applications. The DTP R HWP 4K 231 D supports video signals at resolutions up to 4K. It also accepts analog stereo audio signals from a DTP-enabled product over the same shielded twisted pair cable. The wall-mountable design and remote power capability of the DTP R HWP 4K 231 D provide the convenience of placing output connections precisely where they are needed.

The DTP R HWP 4K 231 D enables the reliable transmission of HDMI signals, supporting Deep Color up to 12-bit, CEC pass-through, and embedded HD lossless audio formats. DDC communication of EDID and HDCP is continuously maintained between a source and display, ensuring direct compatibility and optimal signal transmission between devices. For added installation flexibility, the receiver can be remotely powered over the shielded twisted pair cable by a DTP-enabled product. The DTP R HWP 4K 231 D can be integrated with an Extron DTP CrossPoint® Presentation Matrix Switcher, or other DTP-enabled products to support sources at remote locations.

APPLICATION DIAGRAM



SPECIFICATIONS

TRUE 4K SPECIFICATION Max. 4K Capabilities **Chroma Sampling Resolution and Refresh Rate** Max Bit Depth per Color 4096 x 2160 at 30 Hz 4:4:4 8 bit 3840 x 2160 at 30 Hz 4096 x 2160 at 60 Hz 4:2:0 8 bit 3840 x 2160 at 60 Hz Frame rate¹ 24, 25, 30, 50, or 60 fps Chroma sampling1 4:4:4, 4:2:2, or 4:2:0 Color bit depth1 8 bits per color HDMI 1.4, HDCP 2.3 Signal type Max. video data rate 10.2 Gbps (3.4 Gbps per color) **NOTE:** ¹Subject to the maximum data rate limit. Use our calculator at www.extron.com/4Kdatarate to determine video parameters supported by this data rate.

VIDEO	
HDMI output Maximum pixel clock Resolution range	300 MHz Up to 2560x1600* @ 60 Hz or 4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz, 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling (*Reduced blanking)
VIDEO OUTPUT	
Connectors	1 female HDMI, type A
INTERCONNECTION	BETWEEN TRANSMITTER AND RECEIVER
Signal type	1 DTP 230 input
Connectors	1 female RJ-45 jack
DTP signal Signal transmission distance 1080p @ 60 Hz	Up to 230' (70 m) using shielded twisted pair (STP) cable or XTP DTP 24 cable
2560x1600 @ 60 Hz 4K/UHD @ 30 and 60 Hz Cable requirements Cable recommendations NOTE: Extron XTP DTP 24 s	Up to 130' (40 m) using STP cable or XTP DTP 24 cable Up to 130' (40 m) using STP cable or XTP DTP 24 cable Solid conductor, 24 AWG or better 400 MHz bandwidth STP cable nielded twisted pair cable is strongly recommended for optimal performance.
AUDIO OUTPUT	
Number/signal type	1 stereo, balanced/unbalanced
GENERAL	
Power supply	External (not included) Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1.5 A, 18 watts
Enclosure dimensions Device	4.2" H x 1.7" W x 2.2" D (10.7 cm H x 4.3 cm W x 5.8 cm D)
Model Vers	and weights are available at www.extron.com. ion Description Part number
	II Decorator-Style Rx, Black - 230 feet (70 m) 60-1531-12 II Decorator-Style Rx, White - 230 feet (70 m) 60-1531-13

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

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IPCP Pro 250 xi

Unique Features

- Upgraded single core processor and two times more memory
- One bidirectional RS-232 serial port with software handshaking
- One bidirectional RS-232/RS-422/RS-485 serial port with hardware and software handshaking
- One IR/Serial port for one-way control of external devices
- Four Digital I/O ports
- Two relays for controlling room functions
- Remote volume control port for the Extron MPA Series and select XTRA™ Series amplifiers
- eBUS port for connecting eBUS button panels and accessories

ModelVersion DescriptionPart NumberIPCP Pro 250 xiIPCP Pro xi Control Processor60-1911-01IPCP Pro 250 xiIPCP Pro xi Control Proc., LL UI Upgrade60-1911-01A



IPCP Pro PCS1 xi

Unique Features

- Upgraded single core processor and two times more memory
- Intelligent current sensing with alarm
- Outlet status retention during power loss
- One male AC input and one female AC output both using IEC connections
- Easily-accessible, front panel circuit breaker adds over-current protection for remotely controlled connected devices
- One bidirectional RS-232 serial port with software handshaking
- One IR/Serial port for one-way control of external devices
- Three digital I/O ports
- Supports control system synchronization
- eBUS port for connecting eBUS button panels and accessories

Model	Version Description	Part Number
IPCP Pro PCS1 xi	IPCP Pro xi Control Processor	60-1910-01
IPCP Pro PCS1 xi	IPCP Pro xi Control Proc., LL UI Upgrade	60-1910-01A



IPCP Pro S1 xi

Unique Features

- Upgraded single core processor and two times more memory
- One bidirectional RS-232/RS-422/RS-485 serial port with hardware and software handshaking
- Compact, 1U, quarter rack width metal enclosure
- External Extron Everlast™ power supply included

Model	Version Description	Part Number
IPCP Pro S1 xi	IPCP Pro xi Control Processor	60-1979-01
IPCP Pro S1 xi	IPCP Pro xi Control Proc., LL ULUparade	60-1979-01A





5-Port Gigabit Easy Smart Switch with 4-Port PoE+

MODEL: TL-SG105MPE Datasheet



Overview

The TL-SG105MPE is a 5-port Gigabit Easy Smart Switch with 4 PoE+ ports, represents a powerful upgrade from an unmanaged switch. It is designed specially for small businesses that require simple network management and PoE function. The TL-SG105MPE can connect and power up to four PoE devices, such as wireless access points (APs), IP cameras, and IP phones. Through its web-based user interface and management utility, the TL-SG105MPE offers a variety of useful features, including network monitoring, traffic prioritization, PoE Auto Recovery and enhanced QoS. Additionally, with port-based, tag-based and MTU VLAN, TL-SG105MPE can improve security and meet more network segmentation requirements.

Power Over Ethernet

4 of the 5 Auto-Negotiation RJ45 ports (port 1 to port 4) of the switch support Power over Ethernet (PoE) function. These PoE ports can automatically detect and supply power with those IEEE 802.3af/at compliant Powered Devices (PDs).



Specifications

Product Picture		
Model		TL-SG105MPE
Physical Features	Interface	5 10/100/1000Mbps RJ45 Ports
	PoE Standard	802.3af/at
	PoE Ports	Port 1~ Port 4, up to 30 W per port
	PoE Power Budget	120 W
	External Power Supply	External Power Adapter (Output: 53.5 VDC/2.43 A)
	Max Power Consumption	4.34 W (220 V/50 Hz with no PD connected) 137.01 W (110 V/50 Hz with 120 W PD connected)
	Max Heat Dissipation	14.8 BTU/h (with no PD connected) 467.17 BTU/h (with 120 W PD connected)
	Fan Quantity	Fanless
	LED	Power, PoE Max, Speed/Link/Act, PoE Status (Port 1~Port 4)
	Certification	CE, FCC
	Dimensions	3.9 x 3.9 x 1.0 in (99.8 x 98 x 25 mm)
	Environment	Operating Temperature: 0 °C~40 °C (32 °F~104 °F) Storage Temperature: -40 °C~70 °C (-40 °F~158 °F) Operating Humidity: 10% ~ 90%RH, non-condensing Storage Humidity: 5%~95%RH, non-condensing
Performance	Switching Capacity	10 Gbps
	Forwarding Rate	7.44 Mpps
	MAC Address Table	2K
	Packet Buffer Memory	1 Mb
	Jumbo Frame	16 KB

Note: PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.



ACCESSORIES

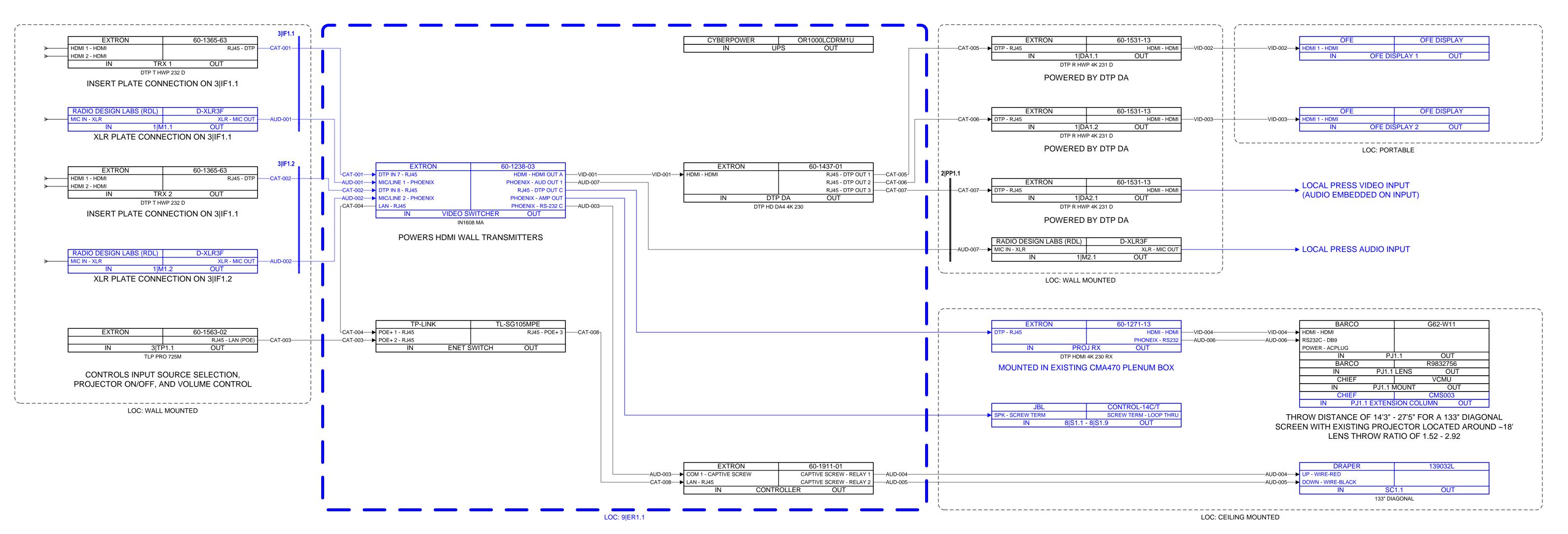
Models D-XLR3F, DB-XLR3F, DS-XLR3F XLR 3-pin Female Jack on Decora® Wall Plate



Base System – Upgrades to existing system

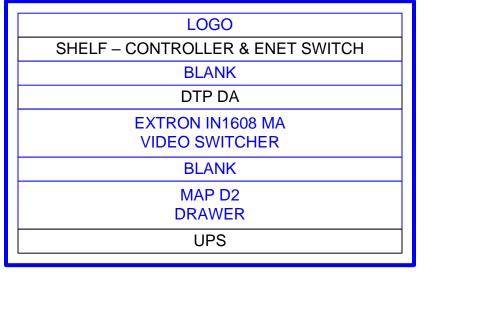
The video and control system will be upgraded while the audio system will remain as is except for an additional mic output plate for local press connectivity. The video system upgrade will include a new 10k lumen projector with a new lens and projector mount. The projector shall be mounted in the same location as the current one and will receive power from the local power source. The client's existing HDMI/VGA input plates have loose connectors so a replacement will be made for those with (2) HDMI input connections. Nothing was stated about the XLR inputs being messed up so those will remain unchanged. In addition, a DTP distribution amplifier has been added to the system for video distribution to a total (3) locations. Two locations are for portable displays provided by the client and the third location is designated for the local press to connect to for video content with embedded audio. I have also included an XLR output plate for the press as well. The control system upgrade includes a replacement of the existing Extron button panel with a 7" touch panel with the same functionality.

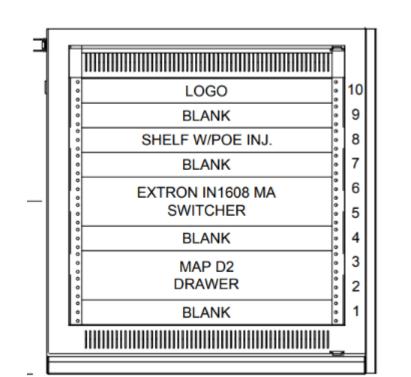
Owner Furnished / Existing Equipment



NEW POTENTIAL RACK LAYOUT:

EXISTING RACK LAYOUT:







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 4/8/2025

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 4/8/2025

City of Augusta Beazley Room
Projector Upgrade
Adrian McDaniel
535 Telfair Street
Augusta, GA 30901

AV701

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