



Extron DTP T UWP 4K D Series Two Input DTP Transmitter User Guide

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Extron DTP T UWP 4K D Series Two Input DTP Transmitter



Product Information

The Extron DTP T UWP 4K D series of Twisted Pair (TP) wallplate extenders is a professional audio/video equipment designed for transmitting and extending audio and video signals over long distances. It supports HDMI and VGA inputs and features HDCP support for secure content transmission. The transmitter unit is compact and can be easily mounted on a wall or in an electrical junction box.

Main Features

- Supports HDMI and VGA inputs
- HDCP 1.4 compliant
- Transmits audio and video signals over long distances
- Compact design for easy installation

Specifications

- **Power Input:** 100-240V ~ — A-MAX
- **Audio Outputs:** Amplified Output 2x25W(8)/2x50W(4)
- **Supported Cable:** XTP DTP 24 Cable (up to 230')
- **Supported Video Resolution:** Up to 4K

Product Usage Instructions

1. Disconnect all equipment power sources.
2. Prepare the mounting surface by securing the wall box to the wall stud with nails or screws.
3. Run all required cables and secure them with cable clamps.

Connecting Inputs

Front Panel:

- **A:** Audio input connector – Connect an unbalanced stereo audio source to this 3.5mm mini stereo jack.
- **B:** HDMI input connector – Connect an HDMI cable between this port and the output port of the digital video source.
- **C:** VGA input connector – Connect a VGA cable between this port and the output port of the video source.
- **D:** Mini USB port – Connect a male Mini USB-B cable to this port for SIS configuration and firmware updates.

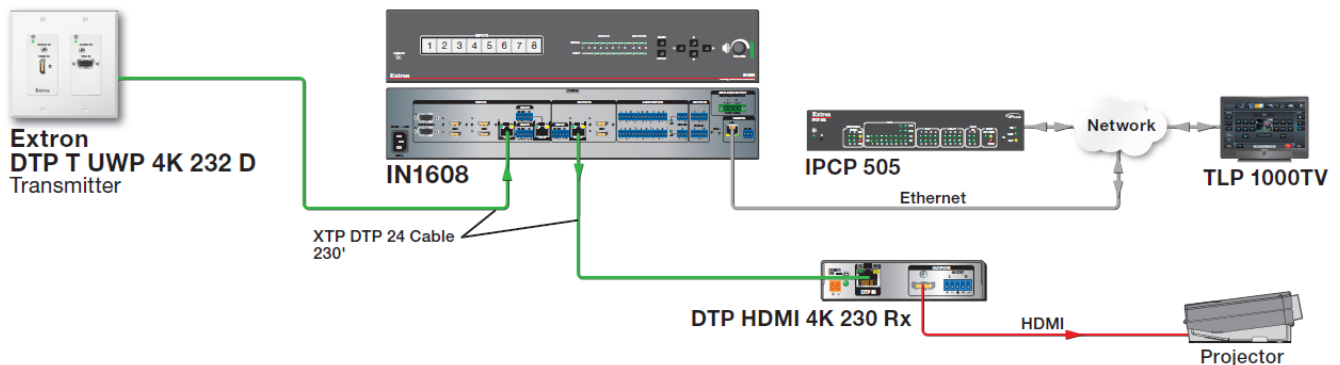
Rear Panel:

- **A:** DC power input connector – Wire and plug the included external 12VDC power supply into either this 2-pole connector or the power input connector on the receiver.
- **B:** Over DTP connector – Connect an RS-232 device to this 3-pole connector for control and communication.

Note: For detailed wiring information, refer to the DTP T UWP 4K D Series User Guide available at www.extron.com. Once the inputs are connected, you can proceed with configuring and operating the Extron DTP T UWP 4K D series of Twisted Pair wallplate extenders according to your specific requirements. For detailed instructions on configuration and operation, please refer to the user guide provided by the manufacturer.

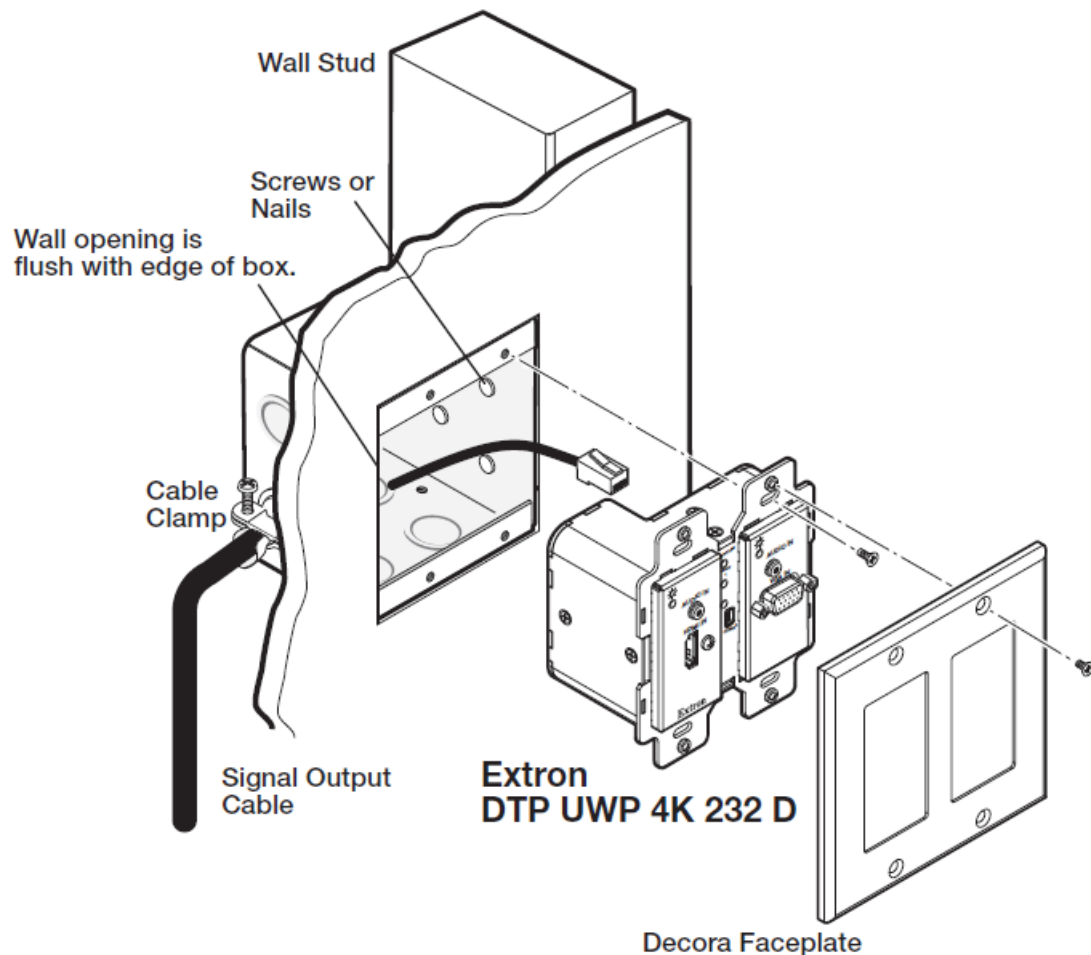
Setup Guide

This setup guide provides instructions for an experienced installer to set up and operate the Extron DTP T UWP 4K D series of Twisted Pair (TP) wallplate extenders.



Installation

- **Step 1 — Disconnect Power**
Disconnect all equipment power sources.
- **Step 2 — Prepare the Mounting Surface**



ATTENTION:

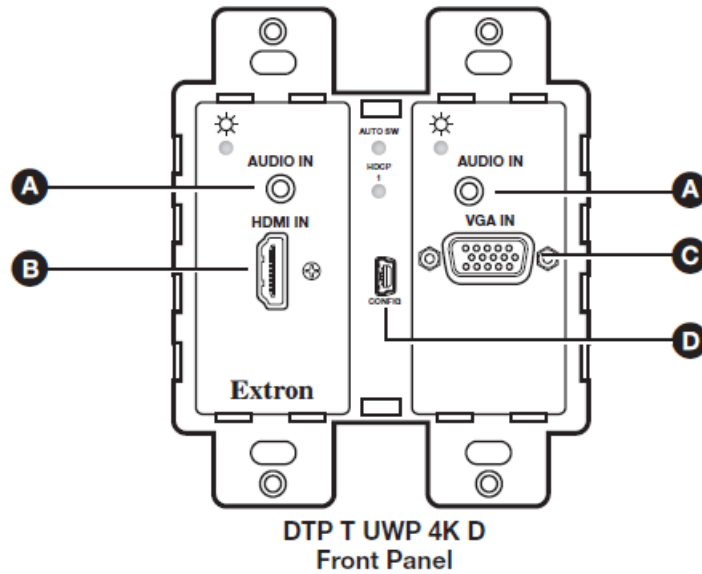
- Installation and service must be performed by authorized personnel.
- The unit must be installed in accordance with the National Electrical Code and with local electrical and safety codes.
- **NOTE:** Use a wall box with a depth of at least 3.0 inches (7.6 cm). Alternatively, the included mud ring (MR 200) can be used. For more information, see the DTP T UWP 4K D Series User Guide at www.extron.com.
- **a.** Place the wall box against the installation surface and mark the opening guidelines.
 - **TIP:** Use a level to mark the opening.
- **b.** Cut out the material from the marked area.
- **c.** Secure the wall box to the wall stud with 10-penny nails or #8 or #10 screws, leaving the front edge flush with the surface.
- **d.** Run all required cables (see steps 3, 4, and 5) and secure them with cable clamps.
 - **TIP:** In order to fit the unit in the junction box, do not install boots on TP cables and RJ-45 connectors.
- **Step 3** — Connect Inputs to the Transmitter

Front Panel

- **A Audio input connector** — Connect an unbalanced stereo audio source to this 3.5 mm mini stereo jack.
- **B HDMI input connector** — Connect an HDMI cable between this port and the output port of the digital video

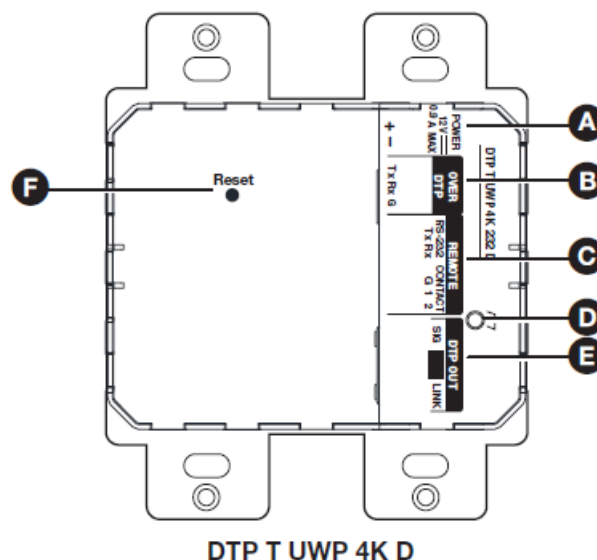
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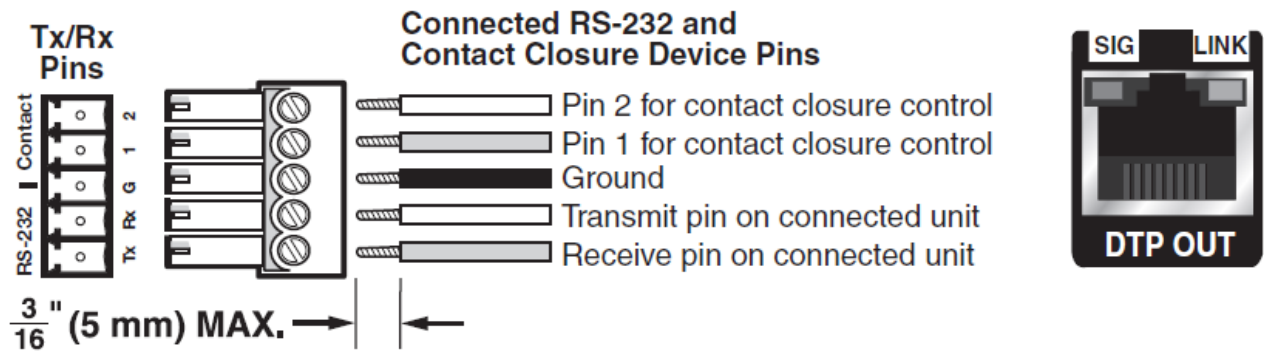
- **C VGA input connector** — Connect a VGA cable between this port and the output port of the video source.
- **D Mini USB port** — Connect a male Mini USB-B cable to this port for SIS configuration and firmware updates.



Rear Panel

- **A DC power input connector** — Wire and plug the included external 12 VDC power supply into either this 2-pole connector or the power input connector on the receiver (see the DTP T UWP 4K D Series User Guide at www.extron.com for wiring information).
- **B Over DTP connector** — Connect an RS-232 device to this 3-pole, 3.5 mm captive screw connector for pass-through RS-232 control.
- **C Remote connector** — Connect an RS-232 device, contact closure device, or both to this 5-pole, 3.5 mm captive screw connector to control switching on the unit. Wire the connector as shown in the diagram below.
 - **RS-232** — To control the unit through this port, connect an RS-232 device and configure it as follows: 9600 baud rate, 8 data bits, 1 stop bit, no parity.
 - **Contact** — Momentarily short pins 1 or 2 to ground (G) to select the corresponding input.
- **D Grounding Screw** — Connect a grounding wire from this screw to the wall box to ground the unit.
- **E DTP OUT connector** — Connect one end of a twisted pair cable to this RJ-45 connector and the opposite end to a compatible receiver.





Rear Panel

- **A** DC power input connector
- **B** Over DTP connector
- **C** Remote connector
- **D** Grounding screw
- **E** DTP OUT connector
- **F** Reset button (page 3)

ATTENTION:

- Do not connect these outputs to a telecommunications or computer data network.

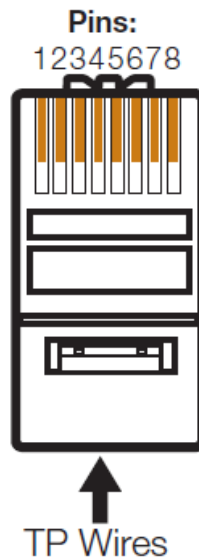
NOTES:

- The DTP T UWP 4K 232 D model can transmit video, control, and audio (if applicable) signals up to 230 feet (70 meters).
- The DTP T UWP 4K 332 D model can transmit video, control, and audio (if applicable) signals up to 330 feet (100 meters).
- **Reset button** — To perform a factory reset, use an Extron Tweezer or small screwdriver to press and hold this recessed button for 6 seconds while the switcher is running.

Step 4 — Run Cables Between Units

Connect the rear panel transmitter output to a rear panel receiver input using twisted pair cable. Wire the cable as shown in the diagram to the right. For optimal performance, Extron highly recommends the following:

- RJ-45 termination with shielded twisted pair cable must comply with TIA/EIA-T568B wiring standard for all connections. For more information on TP cable wiring and termination, see the full product user guide.
- Use shielded twisted pair cable, 24 AWG solid conductor or better, with a minimum cable bandwidth of 400 MHz.



Pin	TIA/EIA T568-B Wire color
1	White-orange
2	Orange
3	White-green
4	Blue
5	White-blue
6	Green
7	White-brown
8	Brown

ATTENTION:

- Do not use Extron UTP23SF-4 Enhanced Skew-Free AV UTP cable or STP201 cable to link the device with hDTP transmitters or receivers.
- Use shielded RJ-45 plugs to terminate the cable.
- Limit the use of RJ-45 patches. Overall transmission distance capabilities vary depending on the number of patches used. If possible, limit the number of patches to two total.
- If RJ-45 patches must be used in the system, shielded patches are recommended.

Step 5 — Connect the Outputs from a Compatible Receiver

- **a.** Connect a DVI or HDMI cable (depending on your receiver type) between the receiver output port and the input port of the display.
- **b.** Connect a stereo audio device to the 3.5 mm mini stereo jack to receive the passed-through unbalanced audio.
- **c.** Connect an RS-232 and contact closure device to the rear RS-232/Contact port (see the DTP T UWP 4K D

Series User Guide for wiring details).

Step 6 — Power the Units

The units can be powered one of two ways:

- Locally with the included power supply. A compatible receiver can then be powered remotely through the DTP line.
- Remotely via the DTP line by a locally powered DTP 230 or 330 compatible device.

NOTE: See the DTP T UWP 4K D Series User Guide for wiring information.

Step 7 — Final Installation

- **a.** Make all connections, power the units, and test the system for satisfactory operation.
- **b.** At the power outlet, unplug the power supply.
- **c.** Mount the transmitter into the wall box, and attach the supplied decorator-style faceplate to the unit.
- **d.** At the power outlet, reconnect the power supply. This powers up both units.

Operation

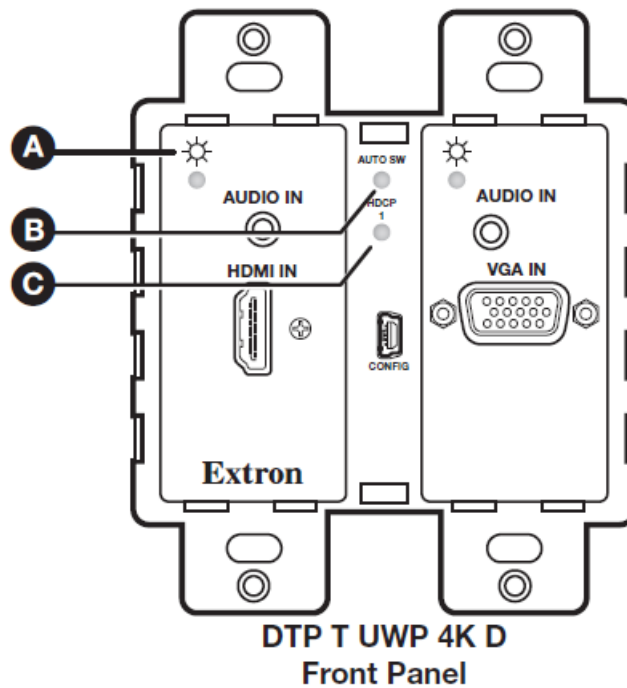
NOTES:

- Input switching can be performed only via auto switch, RS-232, or contact closure through the rear panel connectors.
- Auto switching can be activated or deactivated only via SIS commands. The default is ON with highest input as priority.

After all devices are powered up, the system is fully operational.

Transmitter LEDs

- **A. Power LEDs** — These two-color front panel LEDs on the transmitters light to indicate signal and power status as follows:
 - **Amber** — The unit is receiving power but there is no signal on the HDMI or VGA inputs.
 - **Green** — The unit is receiving power and a signal is present on the HDMI or VGA inputs.
- **B. Auto Switch LED** — Lights green when auto switch is active (see Rear Panel C on page 2).
- **C. HDCP LED** — Lights green when HDMI input has been authenticated on the source device.



Audio Configuration

The DTP T UWP 4K D series of products can embed analog audio inputs into the digital video output. Use Extron PCS software (available at www.extron.com) or SIS commands (see the DTP T UWP 4K D Series User Guide) to select the desired embedded audio mode.

NOTE: If no VGA or HDMI signal is present, analog audio will be transported over the DTP connection to the analog audio output of the receiver.

When an input is selected, audio transport over HDMI can be configured to operate in one of three modes. Each input can be configured individually for any of the three modes.

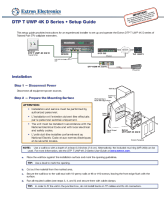
- **Transport embedded digital audio (default)** — The embedded digital audio content on the digital video input is transported. Analog audio is still separate from the digital embedded audio on the HDMI signal and transported simultaneously over the DTP output, not embedded into the digital output.
- **Embed analog audio input** — The analog audio input is always embedded in the digital output, replacing whatever content is already present on the embedded digital audio. Analog audio is also transported over the DTP output as a simultaneous output.
- **Auto select between analog audio and digital audio** — When both analog audio and digital embedded audio on HDMI are present, embedded digital audio on the HDMI signal takes priority. Analog audio is transported simultaneously with the digital embedded audio content that is already present on the DTP output.

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IMPORTANT: Go to www.extron.com for the complete user guide, installation instructions, and specifications before connecting the product to the power source.

Documents / Resources

	<p>Extron DTP T UWP 4K D Series Two Input DTP Transmitter [pdf] User Guide</p> <p>4K 232 D, IN1608 SA, IN1608 SCALING PRESENTATION SWITCHER, DTP T UWP 4K D Series, DTP T UWP 4K D Series Two Input DTP Transmitter, Two Input DTP Transmitter, Input DTP Transmitter, DTP Transmitter, Transmitter</p>
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References

- [MH Search - Manual-Hub.com](#)
- [Extron - The AV Technology Leader](#)
- [MH Search - Manual-Hub.com](#)