DTP T SW4 HD 4K
FOUR INPUT HDMI SWITCHER WITH INTEGRATED DTP TRANSMITTER

- Transmits HDMI plus control up to 330 feet (100 meters) over a shielded CATx cable
- Auto-switching between inputs
- Supports computer and video resolutions up to 4K
- Remote powering of DTP receiver
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- DTP output is compatible with HDBaseT-enabled devices
- Bidirectional RS-232 and IR pass-through for AV device control
- User-selectable HDCP authorization
- EDID Minder® automatically manages EDID communication between connected devices
- Contact closure remote control with tally output

The Extron DTP T SW4 HD 4K is a four-input switcher with a DTP output that sends HDMI and control signals up to 330 feet (100 meters) over a shielded CATx cable. With integrator-friendly features in a compact enclosure, this switcher is well-suited for a variety of applications.
The Extron DTP T SW4 HD 4K is a four-input switcher for sending HDMI and control signals over shielded CATx cable up to 330 feet (100 meters) to DTP®-enabled products. It supports computer and video signals at resolutions up to 4K. The many integrator-friendly features include EDID Minder®, selectable HDCP authorization, along with bidirectional RS-232 and IR pass-through for remote AV device control. Front panel, RS-232, contact closure, and auto-input switching control capabilities facilitate integration of the switcher into a wide variety of environments.

The HDCP-compliant DTP T SW4 HD 4K provides reliable switching and transmission of HDMI signals, automatically switching among as many as four sources. The DTP output can be configured for compatibility with HDBaseT-enabled displays to send digital video with embedded audio plus bidirectional RS-232 and IR signals up to 330 feet (100 meters) over a shielded CATx cable.

Front panel LED indicators provide immediate visual confirmation of HDCP authentication and signal presence for each input and the output. If HDCP-encrypted content is transmitted to a non-compliant display, a full-screen green signal provides immediate visual confirmation that protected content cannot be viewed on that display.

The switcher supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system for AV device control. For added installation flexibility, it can supply power to a DTP-enabled receiver over the shielded twisted pair cable. This simplifies installation and allows both devices to share one power supply.

Convenient control options include front panel control, RS-232, IR, and contact closure with tally output. Configuration of the DTP T SW4 HD 4K is made simple with Extron’s PCS·Product Configuration Software with a user-friendly GUI that is very easy to navigate. This software application allows for expedited setup and commissioning, real-time operation and monitoring, plus the ability to configure several units in the same session.

**KEY FEATURES**

- Transmits HDMI plus control up to 330 feet (100 meters) over a shielded CATx cable
- Four HDMI inputs
- Auto-switching between inputs – Auto-switching allows for simple, unmanaged installation in locations such as in a lectern or under a conference table.
- Supports computer and video resolutions up to 4K
- Remote powering of DTP receiver – For simplified installation, the transmitter can supply power to a DTP receiver over the twisted pair connection.
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- Supported HDMI specification features include data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D, and HD lossless audio formats
- DTP output is compatible with HDBaseT-enabled devices
- Bidirectional RS-232 and IR pass-through for AV device control
- User-selectable HDCP authorization
- EDID Minder® automatically manages EDID communication between connected devices
- Automatic input cable equalization to 50 feet (15 meters) when used with Extron HDMI Pro Series cable
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display
- Compatible with all DTP 230 and DTP 330 Series receivers, and DTP-enabled products
- RS-232 control port
- Contact closure remote control with tally output
- LED indicators for signal presence, HDCP, and power
- Rack mountable, 1U half rack width metal enclosure
- Highly reliable, energy-efficient external universal power supply included
Extron offers a wide selection of HDCP-compliant DTP twisted pair receivers for extending video, audio, and control signals over a shielded twisted pair cable. Designed for rack mount and architectural applications, the DTP receivers provide convenient connection points at remote display locations.

- Models available to support DisplayPort, HDMI, and DVI
- **Built-in signal conversion** – Any DTP receiver is compatible with any DTP Transmitter regardless of video format
- **Remote power capability** – For simplified installation, a DTP receiver can be remotely powered by a DTP-enabled product over the twisted pair connection

Extron DTP switchers and matrix switchers are powerful, all-in-one AV integration solutions for presentation environments. Products range from the MPS 602 six input presentation switcher to the DTP CrossPoint 108 4K scaling matrix switcher with exclusive Vector 4K scaling. Models are available to deliver all the core functionality of an AV system including high performance switching, scaling, comprehensive audio DSP, a choice of energy efficient 100 watt Class D mono or stereo audio power amplifiers, a built-in Extron IPCP Pro control processor for complete AV system control, as well as integrated extension of video, audio, and control signals over a shielded CATx cable.

- **MPS 602** – Media Presentation Switcher with DTP Extension
- **IN1608** – Eight-Input Scaling Presentation Switcher with DTP Extension
- **DTP CrossPoint 84** – 8x4 Scaling Presentation Matrix Switcher
- **DTP CrossPoint 4K Series** – 10x8, 8x6, 8x4, and 8x2 Seamless 4K Scaling Presentation Matrix Switchers
### SPECIFICATIONS

#### TRUE/4K SPECIFICATION

<table>
<thead>
<tr>
<th>Resolution and Refresh Rate</th>
<th>Chroma Sampling</th>
<th>Max Bit Depth per Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>4096 x 2160 at 30 Hz</td>
<td>4:4:4</td>
<td>8 bit</td>
</tr>
<tr>
<td>3840 x 2160 at 30 Hz</td>
<td>4:4:4</td>
<td></td>
</tr>
<tr>
<td>4096 x 2160 at 60 Hz</td>
<td>4:2:0</td>
<td></td>
</tr>
<tr>
<td>3840 x 2160 at 60 Hz</td>
<td>4:2:0</td>
<td></td>
</tr>
</tbody>
</table>

**Framerate**
24, 25, 30, 50, or 60 fps

**Chroma sampling**
4:4:4, 4:2:2, or 4:2:0

**Color bit depth**
8 bits per color

**Signal type**
HDMI 1.4, HDCP 1.4

**Max. video data rate**
10.2 Gbps (4.4 Gbps per color)

**NOTE:** Subject to the maximum data rate limit. Use our calculator at www.extron.com/4Kdatarate to determine video parameters supported by this data rate.

#### VIDEO

**Maximum data rate**
10.2 Gbps (4.4 Gbps per color)

**Maximum pixel clock**
300 MHz (600 MHz for 4K rates with 4:2:0 chroma subsampling)

**Resolution**
Up to 1920 x 1200 or 1080p @ 60 Hz, 12-bit color
4K (4096x2160) @ 30 Hz, UHD (3840x2160) @ 30 Hz

**Formats**
RGB and YCbCr digital video

**Standards**
DVI 1.0, HDMI 1.4, HDCP 1.4

**NOTE:** The DTP T SW4-4K supports TMDS data rates up to 10.2 Gbps, Deep Color up to 12-bit, 3D**, HD lossless audio, and other HDMI specification features.

**NOTE:** **Extron strongly recommends compatibility testing while designing and before installing any 3D system. There are several unique 3D formats in use by source devices and display manufacturers. The 3D support in this product is limited to signals operating within 164 MHz pixel clock and requires format and EDID compatibility between source and sink devices. Please contact an Extron Application Engineer for more information.

#### VIDEO INPUT

**Number/signal type**
4 single link HDMI (or DVI-D)

**Connectors**
4 female HDMI type A

**NOTE:** *Appropriate HDMI to DVI-D cables or adapters are required for DVI input/output.

#### VIDEO OUTPUT

**Number/signal type**
1 DTP 330 or HDBT (shared with Contact closure)

**Connectors**
1 RJ-45 Jack

**TERMINATION BETWEEN TRANSMITTER AND RECEIVER**

**Connectors**
1 female RJ-45 per unit

**Termination standard**
TIA/EIA T568B

**Signal transmission distance**
1080p @ 60 Hz: Up to 330’ (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 STP cable
2560x1600 @ 60 Hz: Up to 330’ (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 STP cable
4K/UHD @ 30 and 60 Hz: Up to 330’ (100 m) using shielded twisted pair (STP) cable or XTP DTP 24 STP cable

**Cable requirements**
Solid conductor, 24 AWG or better

**Cable recommendations**
400 MHz bandwidth, STP (shielded twisted pair)

**NOTE:** Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance.

#### CONTROL/REMOTE — SWITCHER

<table>
<thead>
<tr>
<th><strong>Serial control port</strong></th>
<th>1 RS-232, 3.5 mm, 3 pole captive screw connector</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pin configuration</strong></td>
<td>1 = Tx, 2 = Rx, 3 = GND</td>
</tr>
<tr>
<td><strong>Baud rate and protocol</strong></td>
<td>9600 baud, 8 data bits, 1 stop bit, no parity</td>
</tr>
</tbody>
</table>

**Auto-input switching**

**Pin configuration**
(1) 3.5 mm, 2 pole captive screw connector
(2) 3.5 mm captive screw, 2-pole
(3) 3.5 mm captive screw, 4-pole

**Contact closure**
(1) 3.5 mm captive screw, 2-pole
(2) 3.5 mm captive screw, 4-pole

**Tally output**
(1) 3.5 mm captive screw, 2-pole
(2) 3.5 mm captive screw, 4-pole

**Tally output power**
30 VDC, 0.2 A

**IR controller module**
IR 102 remote control (optional)
30’ maximum, 40 degrees off-axis

**USB control ports**
1 front panel female mini USB, type B

**USB standard**
USB 2.0, low speed

**Program control**
Extron PCS Software for Windows, Extron Simple Instruction Set™ (SIS™)

#### GENERAL

**Power supply**
External
Input: 100–240 VAC, 50–60 Hz
Output: 12 VDC, 1.4 A, 12 watts

**Temperature/humidity**
Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

**Cooling**
Convection, no vents

**Mounting**

- Rack mount: Yes, with optional 1U rack shelf
- Furniture mount: Yes, with optional under-desk mounting kit or through-desk mounting kit

**Enclosure type**
Metal

**Enclosure dimensions**
1.75” H x 8.75” W x 3.0” D (4.4 cm H x 22.2 cm W x 7.6 cm D) (Depth excludes connectors.)

**Product weight**
0.5 lb (0.3 kg)

**Vibration**
ISIA TA in carton (International Safe Transit Association)

**Regulatory compliance**

- Safety: CE, c-UL, UL
- EN/EMC: CE, C-Tick, FCC Class A, IEC, VCCI
- Environmental: Complies with appropriate requirements of RoHS and WEEE

**Warranty**
3 years parts and labor

**NOTE:** All nominal levels are at ±10%.

**Model**
DTP T SW4 HD 4K Four Input HDMI Switcher with DTP Tx

**Part number**
60-1625-01

For complete specifications, please go to www.extron.com

Specifications are subject to change without notice.

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