DTP T USW 233
THREE INPUT SWITCHER WITH INTEGRATED DTP TRANSMITTER AND AUDIO EMBEDDING

The Extron DTP T USW 233 switcher provides signal extension for up to three sources, sending HDMI or analog video, audio, and control up to 230 feet (70 meters) over a shielded CATx cable to Extron DTP®-enabled products. The HDCP-compliant switcher includes several integrator-friendly features in a low profile enclosure that enables discreet installation in a wide variety of applications.
The Extron DTP T USW 233 is a three input switcher for sending HDMI or analog video, 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, one VGA input, and one DTP 230 twisted pair output. The DTP T USW 233 supports video signals at resolutions up to 1920x1200, including 1080p/60 and 2K. The switcher also offers many integrator-friendly features, such as analog stereo audio embedding, EDID Minder, auto-switching between inputs, audio input assignment, remote power capability, and compatibility with HDBaseT-enabled devices. These features, plus the low profile enclosure, make the DTP T USW 233 ideal for discreet placement in lecterns, beneath tables, or wherever needed to meet application requirements.

The DTP T USW 233 provides reliable switching and transmission of HDMI and analog video signals. The DTP T USW 233 can automatically switch between the digital and analog sources, plus it supports RS-232 and contact closure remote control with tally output for easy operation in unmanaged locations. In addition, the analog audio input can be assigned to any of the three video inputs, or it can be set to follow the input switch.

To enhance and simplify integration of sources and displays, the DTP T USW 233 features EDID Minder. EDID Minder is an Extron-exclusive technology that manages EDID communication between the display device and input sources to ensure that the correct video formats are displayed reliably.

The switcher supports simultaneous transmission of bidirectional RS-232 and IR signals from a control system for AV device control. For added installation flexibility, the DTP T USW 233 transmitter can be remotely powered over the shielded twisted pair cable by a DTP-enabled product. This simplifies installation and allows both devices to share one power supply. The DTP T USW 233 can be integrated with an Extron DTP CrossPoint® Presentation Matrix Switcher, or other DTP-enabled products to support sources at remote locations.

- Transmits HDMI or analog video, control, and analog audio up to 230 feet (70 meters) over a shielded CATx cable
- Two HDMI inputs and one VGA input
- Auto-switching between inputs – Auto-switching allows for simple, unmanaged installation in locations such as in a podium or under a conference table. When multiple inputs are active, the switching priority is configurable.
- Supports computer and video resolutions up to 1920x1200, including 1080p/60 and 2K
- Analog stereo audio embedding
- Compatible with CATx shielded twisted pair cable
- Extron XTP DTP 24 shielded twisted pair cable is strongly recommended for optimal performance
- DTP output is compatible with HDBaseT-enabled devices
- Audio input assignment – The analog audio input can be assigned to any video input, or it can be set to follow the input switch.
- Supports multiple embedded audio formats
- Bidirectional RS-232 and IR pass-through for AV device control
- Remote power capability
- HDCP compliant
- Supported HDMI specification features include data rates up to 6.75 Gbps, 3D, and HD lossless audio formats
- EDID Minder automatically manages EDID communication between connected devices
- RS-232 control port
- Contact closure remote control with tally output
- Compatible with all DTP 230 Series receivers and DTP-enabled products
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 xi** – 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

#### AUDIO OUTPUT

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>1 analog audio over DTP signal, or 1 embedded digital audio over DTP signal</th>
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</thead>
<tbody>
<tr>
<td>Connectors</td>
<td>1 RJ-45 jack</td>
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#### COMMUNICATIONS — SWITCHER

<table>
<thead>
<tr>
<th>Serial control port</th>
<th>RS-232 via (1) 3.5 mm, 3 pole captive screw connector</th>
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<tbody>
<tr>
<td>Tally port</td>
<td>(1) 3.5 mm, 4 pole captive screw connector</td>
</tr>
<tr>
<td>Contact closure remote control</td>
<td>(1) 3.5 mm, 4 pole captive screw connector</td>
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#### USB standards

<table>
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<tr>
<th>USB standard</th>
<th>USB 2.0, High-speed</th>
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<tbody>
<tr>
<td>Control program</td>
<td>Extron Simple Instruction Set (SIS™)</td>
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#### GENERAL

- **Power supply**: External
  - Input: 100-240 VAC, 50-60 Hz
  - Output: 12 VDC, 1 A, 12 watts
- **Power consumption**: Devices
  - Power: 5.5 watts
  - Device and power supply: 7.2 watts
- **NOTES**: The DTP T USW 233 can be powered either locally by the external power supply or remotely by a receiver on the other end of the twisted pair cable.

#### Cooling

- **Convection**: Yes, with optional under-desk mounting kit

#### Mounting

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

#### Enclosure type

- **Metal**: Yes

#### Enclosure dimensions

- **ISTA 1A in carton (International Safe Transit Association)**
  - 1.0" H x 8.75" W x 6.0" D (half rack wide)
  - (2.5 cm H x 22.2 cm W x 15.2 cm D)
- **Depth excludes connectors.**

#### Product weight

- **0.6 lbs (0.3 kg)**

#### Vibration

- **Yes**

#### Regulatory compliance

- **Safety**: CE, c-UL, UL
- **EM/EMC**: CE**, C-tick, FCC Class A**, ICES, VCCI
- **Environmental**: Complies with the appropriate requirements of RoHS, WEEE

#### NOTE: **CE and FCC testing is conducted with STP (shielded twisted pair) I/O cable.**

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For complete specifications, please go to [www.extron.com](http://www.extron.com)

Specifications are subject to change without notice.