

PSU-MIDSPAN-USB-1

Single Channel Midspan USB Power Injector



- Powers one USB-C® host for a maximum of 100 W
- Supports USB 3.2 data pass-through up to 10 Gbps
- Supports USB 2.0 data pass-through up to 480 Mbps
- DisplayPort™ 1.4 Alternative Mode (DP Alt Mode) pass-through compatible
- Mixed Mode functionality: DisplayPort and USB 3.2 data available simultaneously
- No configuration or programming required
- Attachable to a Crestron FlipTop™ cable enclosure
- TAA compliant for government deployments

The [PSU-MIDSPAN-USB-1](#) single point midspan power injector allows data and video pass-through to a USB-C device. The PSU-MIDSPAN-USB-1 supplies up to 100 W to the host while allowing high speed data transfers of 10 Gbps (USB 3.2) and 480 Mbps (USB 2.0). It also supports DisplayPort™ Alternative Mode (DP Alt Mode) at a maximum rate of HBR2 (4k30 in mixed and 4k60 in full DP Alt Mode).

The PSU-MIDSPAN-USB-1 is a TAA-compliant product suitable for government deployments.

Midspan USB-C Power Injector

The PSU-MIDSPAN-USB-1 is used as a midspan USB-C power injector to a USB host. USB-C charging is available at 5, 9 or 15V at 3A, or 20V at 3 or 5A. To meet USB 3.2 standards and deliver 100 W of power, the PSU-MIDSPAN-USB-1 must be connected to the USB host using 5A-rated cables with an e-marker (not included).

Compatible cables ([CBL-USB3G2-C-C-3](#) or [CBL-USB3G1-C-C-6](#))³ are sold separately or as part of [PSU-MIDSPAN-USB-1-C-KIT](#).

USB Data Pass-Through

The PSU-MIDSPAN-USB-1 provides data and video pass-through for USB 2.0, USB 3.2, and DP Alt Mode. It supports high speed USB data transfer rates of 480 Mbps via USB 2.0 and 10 Gbps via USB 3.2. DP Alt Mode is supported with video resolutions of HBR2 at 4k30 in mixed mode, and 4k60 in full DP Alt Mode.

NOTE: The PSU-MIDSPAN-USB-1 has a pass-through connection and does not count as a tier in USB network topology.

Mounting Options

The PSU-MIDSPAN-USB-1 can be attached to a [Crestron FlipTop](#) cable enclosure, mounted on a wall or surface using the included bracket, or used freestanding.

Specifications

Connectors

G	(1) M3 x 0.5 mm screw; Chassis ground lug
24V 6.0A	(1) DC power connector; 24VDC power input (power pack included)
TO DEVICE	(1) USB Type-C® connector, female; Digital video/audio output using DP Alt Mode; USB 3.2 Gen2 data support (USB 2.0 High Speed 480 Mbps is also supported); Power 5V, 7.5 W
CONTACTS	(1) 2-pin 3.5 mm detachable terminal block; Normally open
TO HOST¹	(1) USB Type-C® connector, female; Digital video/audio input using DP Alt Mode; ² USB 3.2 Gen2 data support (USB 2.0 High Speed 480 Mbps is also supported); Fixed SPR power injection up to 100 W (Standard Power Range)
SERVICE	(1) USB 2.0 Type-A connector, female; Used for firmware updates

Controls and Indicators

PWR	(1) Two-color LED; Solid Green indicates that the device is operational; Solid Orange indicates that the device is powering on; Flashing Orange and Green indicates that the device firmware upgrade is in progress.
Contact Closure	(1) Push button used to close contacts
RESET	(1) Recessed push button for hardware reset

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Video

Maximum Resolutions (DP ALT Mode Video)	DP Alt Mode mixed: Up to 4k30 (v1.4 / HBR2 max); DP Alt Mode full: Up to 4k60 (v1.4 / HBR2 max)
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Power

Power Pack (Included)	Input: 100–240VAC Output: 24VDC 6A Model: PW-2460DU
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Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (noncondensing)

Construction

Chassis	Metal, black finish, ventilation top and sides
Mounting	Freestanding, wall or table surface mount (with included mounting bracket), or attach to a Crestron FlipTop cable enclosure

Dimensions

Height	1.00 in. (25 mm)
Width	4.41 in. (112 mm)
Depth	5.75 in. (146 mm)

Weight

13 oz (400 g)

Compliance

Regulatory Model: M202228002

FCC Part 15 Class B, IC Class B, CE, UL® Listed for US and Canada/Intertek® Listed for US and Canada

Model

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Available Accessories

For a list of available accessories, visit the [PSU-MIDSPAN-USB-1](#) product page.

Notes:

1. Certain laptops and USB-C cables may not support 100 W charging or DP Alt Mode pass-through. For more information, refer to the [Knowledge Article 000003115](#).
2. The host laptop must support DP Alt Mode on the USB-C charging port to transmit video.
3. CBL-USB3G2-C-C-3 and CBL-USB3G1-C-C-6 cables are not TAA compliant.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](#) or contact us for additional information by visiting [www.crestron.com/contact/our-locations](#) for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at [www.crestron.com/warranty](#).

The specific patents that cover Crestron products are listed online at [www.crestron.com/legal/patents](#).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](#).

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