

2x1 Bi-Directional USB-C Switch - 8K 60 Hz Video, HDCP Passthrough, USB 3.2 Gen 2, 100W PD Charging, Black

MODEL NUMBER: U415-002-BDS



Switches between 2 video sources on a single display or switches one video source between 2 displays up to 8K 60 Hz.

Features

Connect 2 Audio/Video Sources to a Display or 2 Displays to a Single A/V Source

The U415-002-BDS connects two 8K or 4K source devices to one 8K or 4K display and lets you switch back and forth between them. Or you can connect two displays to a single source and switch between the displays. This bi-directional HDMI switch works with a wide range of sources (media servers, Blu-ray players, game consoles, etc.) and displays (televisions, monitors, projectors) to let you customize your A/V installation.

Suitable for a Wide Range of Audio/Video Applications for Work or Play

This switch is recommended anywhere a variety of video signals is transmitted to a hi-def display. It is suitable for home theaters, video and multimedia presentations, security applications or digital signage in classrooms, bars, restaurants, conference rooms, lecture halls, exhibition centers and trade shows.

Also Functions as a USB Hub and Multiport Adapter

When not being used as an 8K video switch, the U415-002-BDS acts as a USB-C hub for connecting peripherals and charging mobile devices. It can switch between two hosts and one USB-C peripheral or one host and two peripherals. It supports USB 3.2 Gen 2 speeds up to 10 Gbps to ensure lightning-fast data transfers between the host and an external storage device. The USB-C PD 3.0 port also provides up to 100W for charging the host device.

Transmits Top-of-the-Line Ultra High Definition Video

This USB-C switch is capable of extending the host device's desktop or mirroring the host's content to a connected display at 8K (7680 x 4320) at 60 Hz or 4K (3840 x 2160) at 120 Hz. Ideal for creative professionals and gamers looking for the best video resolution possible, the U415-002-BDS can switch between a work or personal laptop and a high-end design or gaming laptop quickly and easily. **Note:** Only one video output is supported at one time. The host device(s), USB-C cabling and display(s) must support DisplayPort Alt Mode and 8K video resolution for 8K resolution to be obtained.

Plug-and-Play Operation for Quick Setup and Immediate Use

The U415-002-BDS works right out of the box with no software or external power required. Connect your devices to the switch's USB-C ports with user-supplied USB-C cables (sold separately). Use the push button on top of the unit to switch between the dual ports. A blue LED identifies which output is being used. The two USB-C outputs are compatible with USB-C-to-HDMI or USB-C-to-DisplayPort adapter

Highlights

- Recommended for digital signage, home theaters and 4K video presentations
- Supports UHD resolutions up to 4K @ 120 Hz (4:4:4) or 8K @ 60 Hz
- HDCP passthrough allows 4K/8K signals from source to display with no loss in resolution
- USB-C PD 3.0 pass-through ports provide up to 100W charging to the host computer
- Supports USB 3.2 Gen 2 speeds up to 10 Gbps to ensure lightning-fast data transfers

System Requirements

- Computer(s) with an available USB-C input
- Computer must support USB 3.2 Gen 2 (10 Gbps) to transfer data at 10 Gbps output
- Computer(s), USB-C cabling and display(s) must all support 8K video resolution for 8K resolution to be achieved
- Power adapter and USB-C cable capable of 100W PD charging are required for 100W PD charging

Package Includes

- U415-002-BDS 2x1 Bi-Directional USB-C Switch
- Installation instructions

cables for use with traditional video inputs on monitors and televisions.

Specifications

OVERVIEW	
UPC Code	037332288196
Product Type	USB-C Switch + Hub
Device Compatibility	Chromebook; Computer; Laptop; Monitor/HDTV; Tablet; Video Game System; Watch
Technology	Thunderbolt; USB 3.x
Country/Region	Global
Host Connector	USB C (MALE)
VIDEO	
Video Input	USB C (MALE)
Video Output	USB C (FEMALE)
Number of Monitors Supported	1
Video Ports	(2) USB C (FEMALE)
Video Ports Details	DisplayPort 1.4
Resolutions Supported	Capable of transmitting video to a USB-C display at resolutions up to 8K (7680 x 4320) @ 60 Hz and 4K (3840 x 2160) @ 120 Hz
Supported Resolutions	3840x4320 (4K); 7680x2160 (8K)
Max Supported Video Resolution	7680 x 4320 @ 60 Hz
Extended Mode	Yes
Extended Mode Details	Capable of extending the desktop of the host(s) to a connected USB-C display at resolutions including 8K (7680 x 4320) @ 60 Hz or 4K (3840 x 2160) @ 120 Hz. Note: Only one display may be used at a time. The switch may be connected between two displays and one source, with the pushbutton used to switch displays, or with two hosts and one display to switch between hosts.
Mirror Mode	Yes
Mirror Mode Details	Capable of mirroring the content of the host(s) to a connected USB-C display at resolutions including 8K (7680 x 4320) @ 60 Hz or 4K (3840 x 2160) @ 120 Hz. Note: Only one display may be used at a time. The switch may be connected between two displays and one source, with the pushbutton used to switch displays, or with two hosts and one display to switch between hosts.
Max Supported Color Depth	36-bit Deep Color
HDR Support	Yes
3D Video Supported	Yes
Chroma Sub Sampling	4:2:0; 4:2:2; 4:4:4
EDID Support	Yes
Signal Transmission	Bidirectional
Bandwidth	40 Gbps
DisplayPort Alt Mode	Yes



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DSC Support	Yes
DATA	
Data Ports	(2) USB C (FEMALE)
Data Ports Details	(2) USB-C - USB 3.2 Gen 2 (10 Gbps)
POWER	
USB Power Delivery (PD) Charging Support	Yes
CONNECTIONS	
Side A - Connector 1	USB C (MALE)
Side B - Connector 1	(2) USB C (FEMALE)
Connector Plating	Nickel
Contact Plating	Gold
Connector Type	Molded
Connector Style	Straight
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	(2) Blue = Identifies active USB-C port
CHARGING	
Number of Charging Ports	2
Total Charging Amps	5
Total Charging Watts	100
Charging Port Type	(2) USB C (FEMALE)
Charging Ports	(2) USB-C: 100W (20V 5A) Power Delivery (PD 3.0)
Charging Ports / Amps	(2) 5A
Compatible Devices	Chromebook; Laptop; Portable Speaker; Smartphone; Tablet; Video Game Console
PHYSICAL	
Color	Black
Material of Construction	PVC
Cable Jacket Color	Black
Cable Jacket Material	PVC
Cable Jacket Rating	VW-1
Cable Outer Diameter (OD)	4.8 mm
Wire Gauge (AWG)	34/23
Cable Length (ft.)	1.6



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Cable Length (m)	0.49
Cable Length (in.)	19.7
Shipping Dimensions (hwd / in.)	9.00 x 7.00 x 0.50
Shipping Dimensions (hwd / cm)	22.86 x 17.78 x 1.27
Shipping Weight (lbs.)	0.26
Shipping Weight (kg)	0.12
Unit Dimensions (hwd / in.)	0.590 x 2.170 x 2.170
Unit Dimensions (hwd / cm)	1.5 x 5.5 x 5.5
ENVIRONMENTAL	
Operating Temperature Range	14 to 140 F (-10 to 60 C)
Storage Temperature Range	-4 to 158 F (-20 to 70 C)
Relative Humidity	10% to 85% RH, Non-Condensing
FEATURES & SPECIFICATIONS	
USB Hub Ports	Yes
Number of USB Hub Ports	2
USB Specification	USB 3.2 Gen 2 (Up to 10 Gbps)
IP68 Rated	No
Suspend Mode Support	Yes
Remote Wakeup Support	No
Driver Required	No
STANDARDS & COMPLIANCE	
Product Certifications	EN 55032; EN 55035
Product Compliance	CE (Europe); FCC (USA); REACH; RoHS; UKCA; WEEE
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	3-year limited warranty

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