

## CG-UCUSBPD USB-C to USB-A Power Delivery Adapter with Mounting Kit

The CG-UCUSBPD is a USB-C to USB-A Power Delivery Adapter is USB 3.1 Gen1/2 compliant and is backward compatible with USB 2.0/1.1. It acts as a PD source (power delivery source) for its upstream connector that works with USB 3.1 or USB 2.0 devices. The USB-C upstream port is fully compliant with a USB 3.1 and USB PD capable host.

It is backward compatible with USB 3.0 and 1.1, the USB 3.1 Power delivery adapter is compliant with Gen1 and 2 of the USB 3.1 specification. The USB-C power delivery adapter acts as a PD source for the upstream USB-C port.



## Features and Specifications

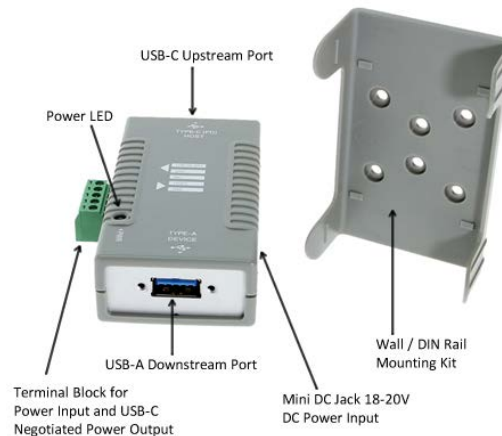
### FEATURES

- Compliant with USB 3.1 Gen1 and Gen2
- One upstream Type-C Connector Supports PD Capable Host
- One Downstream Type-A USB 3.1 Gen1/Gen2 Connector for Devices
- Supports USB PD (power delivery), Works as a Source
- Detachable Mounting Kit for Wall or DIN Rail Mounting Options
- Supports Type-C and Type-A Screw Lock USB Cables
- DC Power Input: 18-20V DC, from DC Jack or Terminal Blocks
- Provides Negotiated Power Output to Terminal Blocks
- Detection of USB Cable connector Attached, Orientation and Role Detection
- Assign CC and VCONN Pins
- Supports Source PDO's (Power Data Object): 20V/5A, 14.5V/2A, 12V/3A and 5V/3A

### SPECIFICATIONS

- **Connectors:** Upstream: Type-C USB 3.1/2.0/1.1 – Downstream: Type-A USB 3.1/2.0/1.1
- **Speed:** USB 3.1 Gen 1/2 with 5/10Gbps
- **USB Signals:** SSRX +/-, SSTX +/-, D+/-
- **Input Power:** 18-20V DC
- **Supported Power PDOs:** 20V/5A, 14.5V/2A, 12V/3A and 5V/3A
- **Operating Temperature:** 0 to 55°C (32 to 131°F)
- **Operating Humidity:** 5 to 95% RH
- **Storage Humidity:** -20 to 85°C (-4 to 185°F)

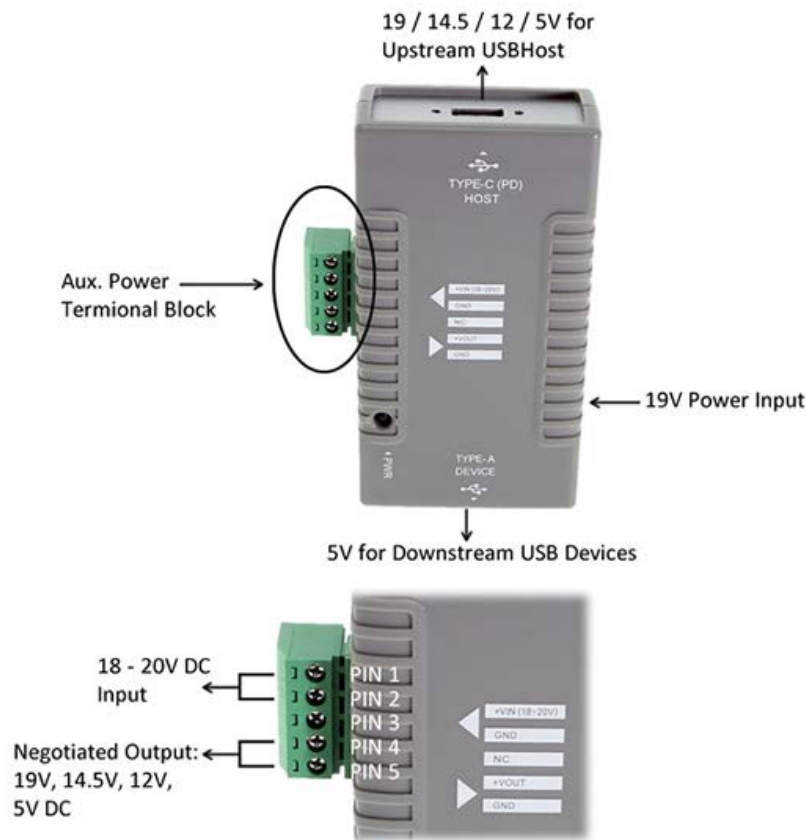
## Connector Layout



## Input and Output Power

The USB-C to USB-A PD Adapter requires 18-20V DC for operation. It can be connected to either the DC Jack or Terminal Blocks (but not simultaneously). The included 19V/2.64A (50W) standard power supply must be connected to the DC Jack.

The USB-C to USB-A PD Adapter produces the required power for the USB-A device (5V fixed) and the PD source power (19V, 14.5V, 12V, or 5V). This depends on which PDO is requested and granted by the PD sink for the USB-C upstream port.



## Installing The CG-UCUSBPD

**Note:** If the supplied power supply along with the CG-UCUSBPD is 50W (19V / 2.64A), then the maximum power output to the USB-C port is 50W instead of 100W. The product needs a 100W supply if the PD sink really needs 100W.

1. **Connect 18-20V DC Power to the DC Jack or Terminal Blocks (PIN 1 is positive (+) and PIN 2 is negative (-)).** If the product comes with a 19V/2.64A power supply, please connect it to the product's DC Jack.
2. **Connect the product's USB-C port to the host USB port with a C-to-C USB cable. The cable orientation is less important because the product can detect the cable attached automatically.**
3. **Installing the USB device on the USB-A connector.**





4. Power up the system, the product will negotiate with the USB host port via the CC logic pins and applies the correct power accordingly. The data lines from USB host will be correctly mapped to the USB device which is ready for the host accessing.

## Mounting the CG-UCUSBDP

The included detachable mount kit can be used to mount the CG-UCUSBDP on a wall surface or a DIN Rail with an optional DIN Rail clip. Please see the image above in the connector layout section.

## Specifications

Type	Specifications
Connectors	Upstream: Type-C USB 3.1 / 2.0 / 1.1 Downstream: Type-A USB 3.1 / 2.0 / 1.1
Speed	USB 3.1 Gen ½ with 5/10Gbps
USB Signals	SSRX +/-, SSTX +/-, D+/-
Input Power	18-20V DC
Supported Power PDOs	20V/5A, 14.5V/2A, 12V/3A, and 5V/3A.
Operating Temperature	0 to 55 C (32 to 131 F)
Operating Humidity	5 to 95% RH
Storage Temperature	-20 to 85 C (-4 to 185 F)

