

PRODUCT DATASHEET



3x Soldered USB-C female vertical connector breakout

333155

Pack of three vertical USB-C sockets on 22 × 22 mm boards, with all USB 2.0 lines on a breadboard-friendly 8-pin header.

Full product documentation, files and tutorials: solde.red/333155

CORE ATTRIBUTES

SKU 333155

ORIGIN HR

BARCODE 732388628100

DESCRIPTION

The **USB-C Female Vertical Connector Breakout** brings every USB 2.0 line of a USB-C socket out to a row of 2.54 mm header pins. The socket stands upright, so the cable plugs in from above instead of from the side. You get **three boards** in the pack.

The eight pins are GND, VUSB, CC1, CC2, D+, D-, SBU1 and SBU2. VUSB is the 5 V line from the cable, and D+ and D- carry the USB 2.0 data. CC1 and CC2 are the configuration lines a USB-C power source checks before it turns the 5 V on. SBU1 and SBU2 are sideband lines that some USB-C modes use.

There is nothing between the socket and the pins, so you decide what the board does. Solder the header to the bottom and it drops into a breadboard with the socket facing up. Two **3.2 mm holes** let you screw it to a panel or an enclosure.

Note:

- The board has no resistors on CC1 and CC2. To get 5 V from a USB-C charger or a USB-C to USB-C cable, connect a 5.1 kΩ resistor from each CC pin to GND. A USB-A to USB-C cable supplies 5 V without them.
- The header pins come unsoldered.

TECHNICAL DETAILS

- **Connector:** USB-C female, vertical, 16-pin
- **Pins:** GND, VUSB, CC1, CC2, D+, D-, SBU1, SBU2
- **Data lines:** USB 2.0 only, no SuperSpeed pairs

- **CC resistors:** none fitted
- **Header:** 8-pin, 2.54 mm pitch, unsoldered
- **Dimensions:** 22 × 22 mm
- **Mounting holes:** 2 × 3.2 mm
- **In the pack:** 3 boards
- **Rated voltage:** 20 V (connector)

SPECIFICATIONS

INTERFACE	Usb
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
SUPPLY VOLTAGE MAX V	20

LINKS

Pinout	https://cms.soldered.com/products/333155/media/333155_pinout-png_02f3d3.png
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