



PRODUCT DATASHEET

3x Soldered USB-C male connector breakout

333156

A USB-C plug on a 22 × 22 mm board, with VUSB, CC1, D+, D-, SBU1 and one SuperSpeed pair broken out to 2.54 mm pins.

Full product documentation, files and tutorials: solde.red/333156

CORE ATTRIBUTES

SKU 333156

DIMENSIONS 22.0 × 22.0 × — mm

ORIGIN HR

BARCODE 732388638505

DESCRIPTION

The USB-C Male Connector Breakout puts a USB-C plug on a small board and brings its contacts out to two 5-pin headers. You plug it straight into a USB-C port and reach VUSB, GND and the signal lines on a breadboard or in your own wiring, without cutting up a cable.

There is no regulator, resistor or protection on the board, so every pin connects straight to the plug: **VUSB**, **GND**, **CC1**, **D+**, **D-**, **SBU1** and the SuperSpeed pair **TX1+/TX1-** and **RX1+/RX1-**. CC1 has no pull-down fitted. A USB-C charger or port switches VUSB on only when it sees a **5.1 kΩ** resistor from CC1 to GND, so you add that resistor yourself or connect a USB PD controller to CC1.

Two 5-pin **2.54 mm** male headers ship unsoldered. Solder them on for a breadboard, or wire straight to the pads. Two 3.2 mm mounting holes let you screw the board down. The board measures **22 × 22 mm**.

TECHNICAL DETAILS

- **Connector:** USB-C male (plug), G-Switch GT-USB-8016B, 12-pin, mid-mount SMD
- **Connector rating:** 5 V; 3 A on VBUS, 0.25 A on the other contacts
- **Connector durability:** 10,000 mating cycles
- **Operating temperature:** -40 to +85 °C (connector)
- **Pins:** GND, VUSB, CC1, D+, D-, SBU1, TX1+, TX1-, RX1+, RX1-
- **Headers:** 2× 5-pin, 2.54 mm pitch, unsoldered
- **Other parts on the board:** none (no CC resistor, regulator or protection)
- **Mounting holes:** 2× 3.2 mm, 16 mm apart
- **In the pack:** 3 boards
- **Dimensions:** PCB 22 × 22 mm, plug extends past one edge

SPECIFICATIONS

INTERFACE	Usb
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
SUPPLY VOLTAGE MAX V	5

LINKS

Pinout	https://cms.soldered.com/products/333156/media/333156_pinout-png_a527b4.png
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GALLERY

