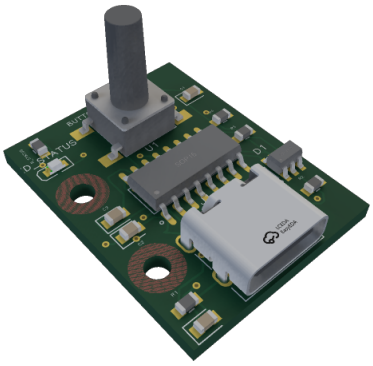
Compact USB-C Pushbutton

1.1 Description

A narrower revision of the pushbutton for a desktop mount with only two screw posts.



Assembly view

1.2 Device specifications

Parameter	Specification
Switch	Momentary pushbutton
Host interface	Web Serial contact input (CTS), 9600 baud
Actuator	12 mm above the PCB when released
PCB dimensions	20 × 26 mm
Mounting holes	2 × Ø2.2 mm for M2 screws; 10 mm center spacing

1.3 Using the board

Use the two holes along the side of the board to leave the centre free for the actuator. Check the revision before printing a mount. This prototype uses a 20 × 26 mm board and 10 mm between its two holes. The original pushbutton uses four holes.

Device guide

2 Protocol reference

Choose **Button** in the console for this prototype. **USB contact input.** Read the clear-to-send signal (CTS) to get the switch state.

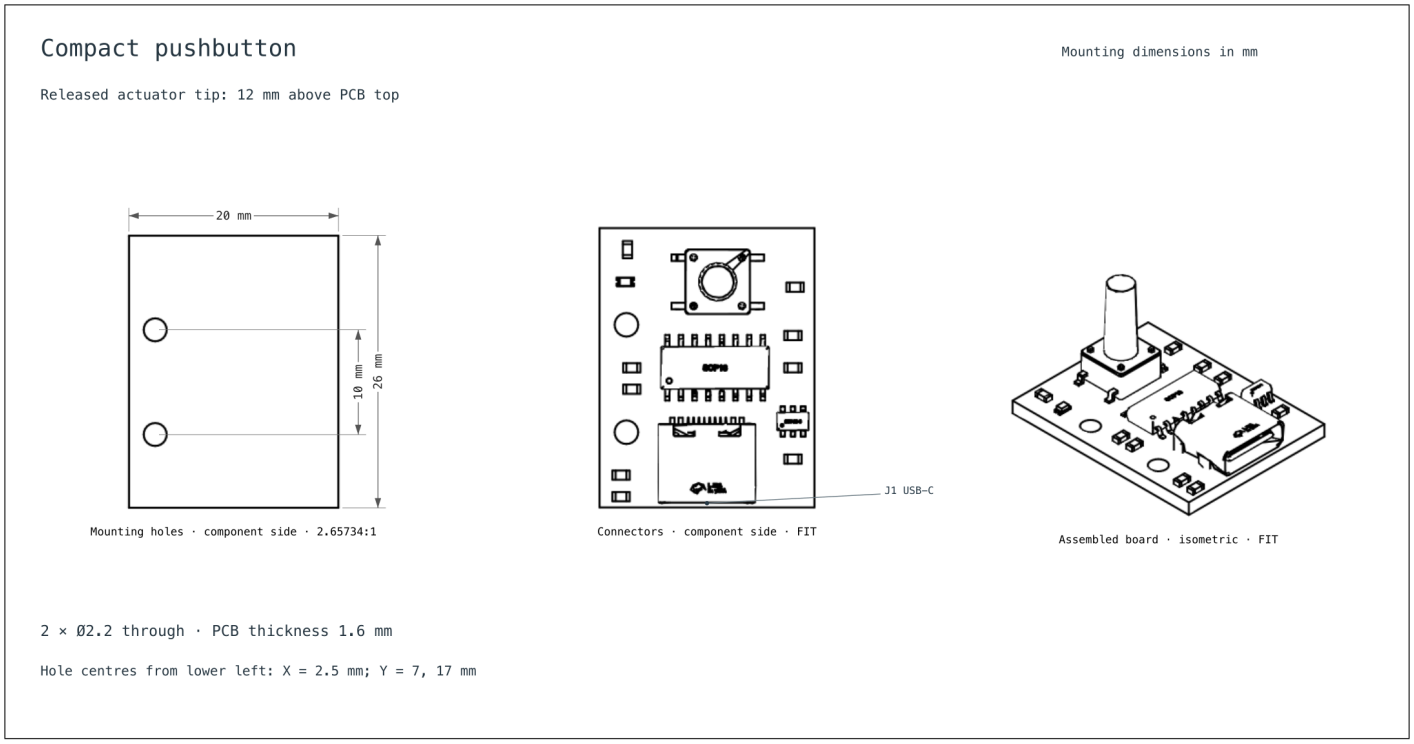
Operation	Request or signal	Result
Open with Web Serial	`port.open({baudRate: 9600, flowControl: "none"})`	Opens the port for polling.
Set DTR low	`port.setSignals({dataTerminalReady: false})`	Configures the serial control line.
Read with Web Serial	`(await port.getSignals()).clearToSend`	`true` = **Pressed**, `false` = **Released**.
Read with WebUSB	Vendor IN request to the device: `0x95`, value `0x0706`, index `0`, length `2`.	Bit 0 of byte 0: `0` = **Pressed**, `1` = **Released**.

Use either the Web Serial or WebUSB path. The console polls every 10 ms and displays a change after 20 ms of stable readings.

Protocol implementation

3 Mechanical information

3.1 Assembly and mounting



Component-side plan and isometric assembly. Dimensions in millimeters.

3.2 Installation dimensions

The PCB measures **20 × 26 mm**, with **2 × Ø2.2 mm** clearance holes for M2 screws. The centre-to-centre spacing is **10 mm**. Orient the component side with the **J1 USB-C port at the bottom**. Measure right and up from the **lower-left corner of the PCB** in the component-side view. The hole centres are at X = 2.5 mm and Y = 7, 17 mm.

3.3 Design resources

Device guide · **Full-size mounting drawing** · **Drawing TSX** · **PCB source**