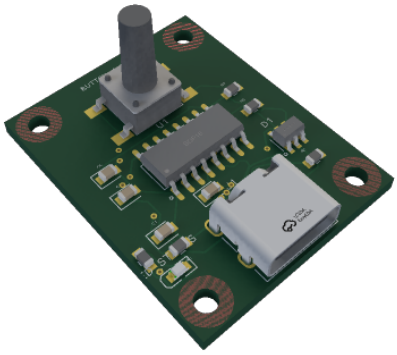
# USB-C Pushbutton

## 1.1 Description

A momentary pushbutton for a desktop trigger, shortcut, or push-to-talk control.



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** | 24 × 30 mm |
| **Mounting holes** | 4 × Ø2.2 mm for M2 screws; 19 × 25 mm center spacing |

## 1.3 Using the board

Choose **Add device** → **Button**. Hold the stem down to see **Pressed** and release it to see **Released**. Leave clearance above the stem so the lid does not hold the switch down. This page shows the corrected 24 × 30 mm PCB. On boards made before the wiring correction, the input can remain asserted in both positions.

### Device guide

# 2 Protocol reference

**USB contact input.** Read the clear-to-send signal (CTS) to get the switch state.

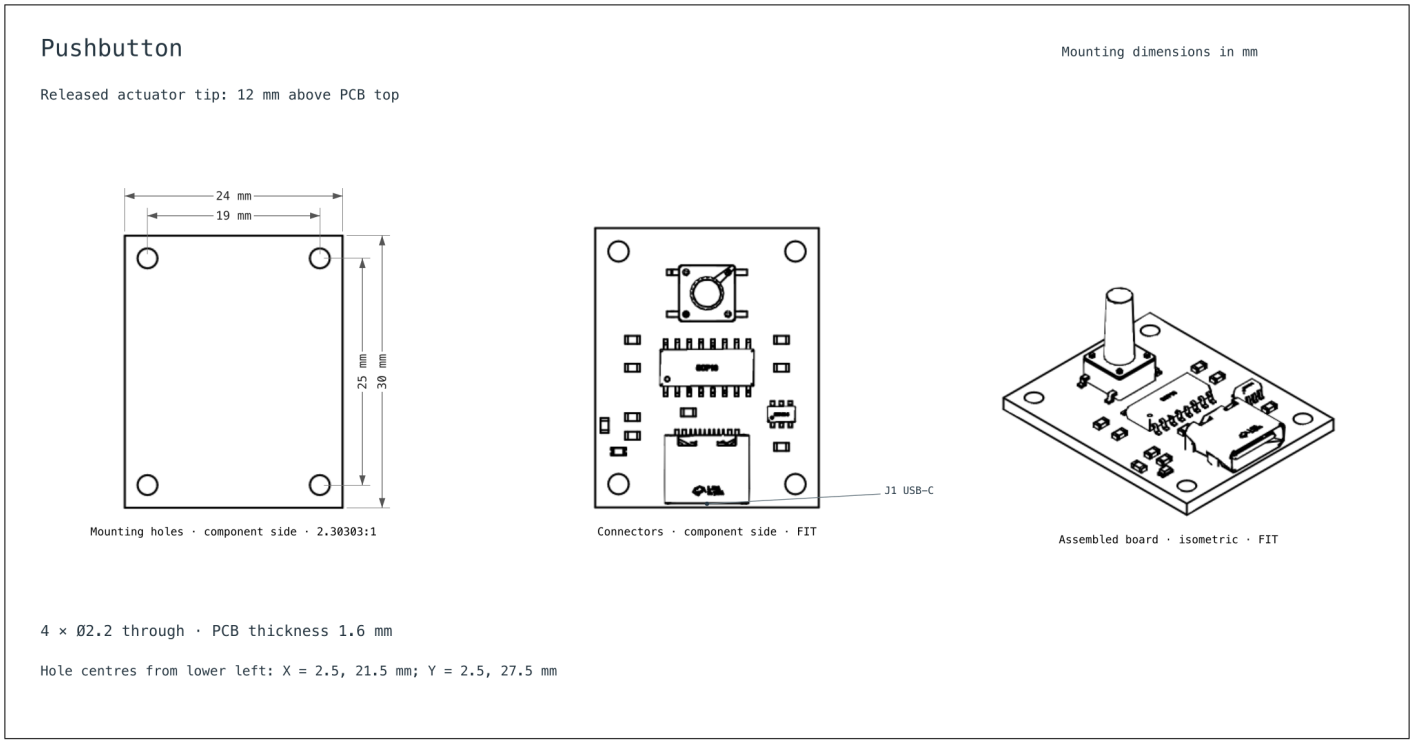
| Operation | Request or signal | Result |
|---|---|---|
| **Open with Web Serial** | `port.open({baudRate: 9600, flowControl: "none"})` | Opens the port for polling. |
| **Set DTR low** | `port.setSignals({dataTerminalReady: false})` | Configures the serial control line. |
| **Read with Web Serial** | `(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 **24 × 30 mm**, with **4 × Ø2.2 mm** clearance holes for M2 screws. The centre-to-centre spacing is **19 × 25 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, 21.5 mm and Y = 2.5, 27.5 mm.

## 3.3 Design resources

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