Teensy 4.0 Breakout (Revision A, Standard)

Machine Screw

Female Standoff

USB-A Jack

Battery Holder

Coin Cell Battery

4.7 kΩ Resistor

This is a breakout for the **Teensy 4.0** development board by **PJRC**. Included are all the pin headers you need to assemble it, a switch to select between USB or external power, a switch to

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 $M2 \times 4 mm$

M2×6mm

Standard

ø 12 mm

CR1220

0805

select between USB host or device mode, machine screws and standoffs for mounting, a coin cell battery holder, a USB-A jack, and a sleep button. This breakout can also optionally be assembled with the **Teensy 4.0 Socket Kit** which is available separately. Scored carrier rails provide additional versatility and mounting options. The rails can optionally be removed for use with a breadboard.

Qty. Part Type Pins Rows Tech. Mfr. Part Number / Desc. Pre-assembled PCB TH Tall Dog 1 56 2 × 28 TD-T40B-A4 Α В Flex Cable Tall Dog TD-T40F-A2 1 8 1×8 SMD С 3 Male Pin Header 40 1×40 ΤH Generic Standard D 1 Male Pin Header 10 2×5 SMD Generic Standard Е Male Pin Header 4 Generic Standard 1 2×2 TΗ F 2 Slide Switch 3 1×3 ΤH Generic SS12D00G3 2 G 2 Jumper / Shunt 1×2 N/A Generic Standard

N/A

N/A

 1×4

1×2

N/A

1×2

N/A

N/A

ΤH

SMD

N/A

SMD

Generic

Generic

Generic

Generic

Generic

Generic

Included Parts (visual part identification sheet attached)

Pre-assembled Parts (these are already soldered to the board)

N/A

N/A

4

2

N/A

2

Qty.	Part Type	Pins	Rows	Tech.	Mfr.	Part Number / Desc.
1	FPC Connector	8	1×8	SMD	Generic	1.0 mm Pitch
1	Micro SD Socket	8	1×8	SMD	Molex	1051620001
1	Tactile Button	2	1×2	SMD	Generic	4 × 3 mm
1	120 Ω Resistor	2	1×2	SMD	Generic	0805
2	100 μF Capacitor	2	1×2	SMD	Generic	1206
2	0.1 μF Capacitor	2	1×2	SMD	Generic	0805
1	2.2 μF Capacitor	2	1×2	SMD	Generic	0805
1	CAN Bus Transceiver	8	2×4	SMD	Microchip	MCP2558FD
1	Current Limit Switch	8	2×4	SMD	Texas Instruments	TPS2055A
	1 1 1 1 2	1 FPC Connector 1 Micro SD Socket 1 Tactile Button 1 120 Ω Resistor 2 100 μF Capacitor 2 0.1 μF Capacitor 1 2.2 μF Capacitor 1 CAN Bus Transceiver	1FPC Connector81Micro SD Socket81Tactile Button21120 Ω Resistor22100 μF Capacitor220.1 μF Capacitor212.2 μF Capacitor21CAN Bus Transceiver8	1FPC Connector8 1×8 1Micro SD Socket8 1×8 1Tactile Button2 1×2 1120 Ω Resistor2 1×2 2100 μ F Capacitor2 1×2 20.1 μ F Capacitor2 1×2 12.2 μ F Capacitor2 1×2 1CAN Bus Transceiver8 2×4	1FPC Connector8 1×8 SMD1Micro SD Socket8 1×8 SMD1Tactile Button2 1×2 SMD1120 Ω Resistor2 1×2 SMD2100 µF Capacitor2 1×2 SMD20.1 µF Capacitor2 1×2 SMD12.2 µF Capacitor2 1×2 SMD1CAN Bus Transceiver8 2×4 SMD	1FPC Connector8 1×8 SMDGeneric1Micro SD Socket8 1×8 SMDMolex1Tactile Button2 1×2 SMDGeneric1120 Ω Resistor2 1×2 SMDGeneric2100 µF Capacitor2 1×2 SMDGeneric20.1 µF Capacitor2 1×2 SMDGeneric12.2 µF Capacitor2 1×2 SMDGeneric1CAN Bus Transceiver8 2×4 SMDMicrochip

*These 4 components are only populated on the CAN Bus version of the board.

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Variants

Unlike previous Teensy breakouts, this board comes partially pre-soldered with a number of surface-mount components to make assembly easier. There are two pre-assembled variants: one which includes a CAN Bus transceiver (Microchip MCP2558FD) and its supporting passives, and one which leaves these components depopulated, for those who don't require CAN Bus support and want to use the associated pins for other purposes. If you're not sure, choose the one without the CAN Bus parts.

Detailed Specs (not including carrier rails)

- **Grid Spacing** 0.1" / 2.54 mm
- **Board Dimensions** 2.8" × 1.0" / 71.12 mm × 25.4 mm
- Board Surface Area $-2.8 \text{ in}^2 / 18.06 \text{ cm}^2$
- Board Thickness 0.063" / 1.6 mm
- Number of Breakout Pins 56 pins (2 rows × 28 pins)
- **Row Spacing** 0.9" / 22.86 mm

Recommended Tools

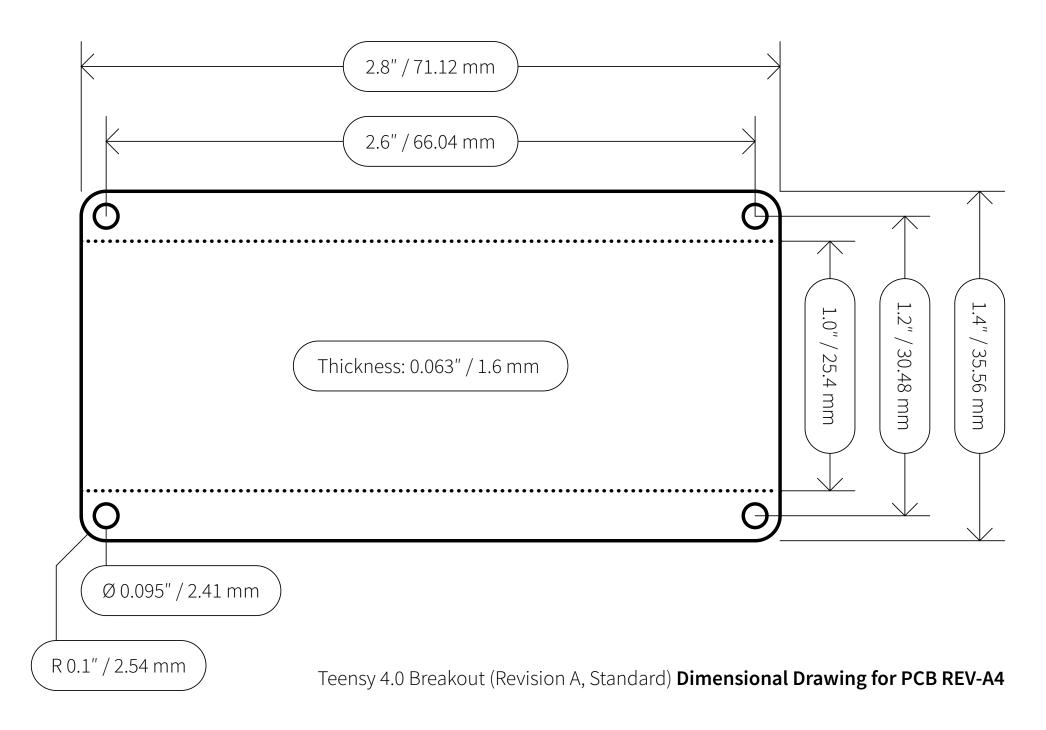
- Soldering iron
- Solder and flux
- Breadboard
- Diagonal cutters
- Blue tape
- Razor blade
- PCB holder

Assembly Instructions

Please visit this website for step-by-step assembly instructions:

https://talldog.dozuki.com

			B		
				E	
F	G	Η	77 <i>7</i>	I	
J	K	L		N BBBBBBBBB	



Teensy 4.0 Breakout Standard Edition

Revision **A4**

