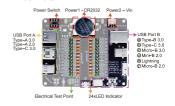
TREEDIX

USB Cable Tester Manual





1. USB Ports

2. USB Cable Tester Pinouts

Pinrow B	Name	Description		Pinrow A	Name	Description
B1	GND	Ground	1	A12	GND	Ground
B2	TX2+	SuperSpeed differential pair 3 TX	1	A11	RX2+	Super Speed differential pair 4, RX
B3	TX2-	SuperSpeed differential pair 3 TX	1	A10	RX2-	Super Speed differential pair 4, RX
B4	VBUS	Bus power	1	A9	VBUS	Bus power
B5	CC2	Configuration channel	1	A8	SBU1	Side Band Use (SBU)
B6	D+	USB Data Positive	1	A7	D-	USB Data Minus
B7	D-	USB Data Minus	1	A6	D+	USB Data Positive
B8	SBU2	Side Band Use (SBU)	1	A5	CC1	Configuration channel
B9	VBUS	Bus power	1	A4	VBUS	Bus power
B10	RX1-	Super Speed differential pair 2, RX	1	A3	TX1-	SuperSpeed differential pair 1 TX
B11	RX1+	Super Speed differential pair 2, RX	1	A2	TX1+	SuperSpeed differential pair 1 TX
B12	GND	Ground	1	A1	GND	Ground

3. Battery Usage Instruction

1. Pull out the plastic tab by the battery(3-1)

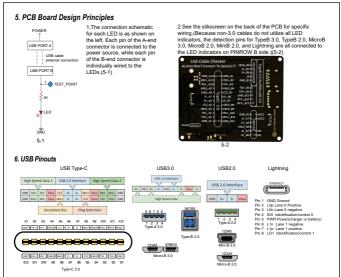
If you want to remove the battery, please follow the picture and use a tool to take out the battery.(3-2)

 Insert the battery into the battery holder at a 45-degree angle, and switch the toggle to 'CR2032'. Be careful not to insert the battery vertically, as this will push the positive terminal of the battery holder (the two yellow metal points on the right) below the battery, causing the test board to not function property(3-2)



4. Instructions for Use:

- Measurement Types: Type-B 3.0, Type-B 2.0, Type-C 3.0, Micro-B 3.0, Micro-B 2.0, Mini-B 2.0, Lighthing.
 Because the pins of TypeC 3.0 are the same as those of TypeC 3.1 and TypeC 3.2, they are compatible with TypeC 3.1 and TypeC 3.2.
- Insert a CR2032 button battery or connect Vin (3V < Vin < 12V).Ensure the power switch is set correctly based on the connected power source.
- Connect the USB cable to be tested. The LED on the corresponding pin will illuminate. (Please note that short-circuited pins, diodes, active electronics, or other cable faults may lead to inaccurate results.)



7. The Reference of Different Cables to Different Lights



When GND and VUBS lights are on, it indicates that the USB data cable only has charging functionality.



When all the lights are on (except for one D+ and one D-), it indicates that the USB data cable supports comprehensive functionality, including charging, data transmission, audio, and video transmission.



When GND, VUBS, D+, and D- lights are on, it indicates that the USB data cable has both charging and data transmission capabilities.



Lightning data cable detection schematic. USB Type C 3.0 to Lightning



When GND, TX2+, TX2-, RX2+, RX2-, VUBS, CC2, D+, and D- lights are on, it indicates that the USB data cable has both charging and high-speed data transmission capabilities. It is a USB 3.0, 3.1 or 3.2 cable.



Email:treedix@outlook.com Notice:Do not connect to any other device!