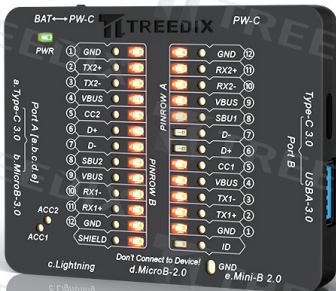




USB Cable Tester User Manual

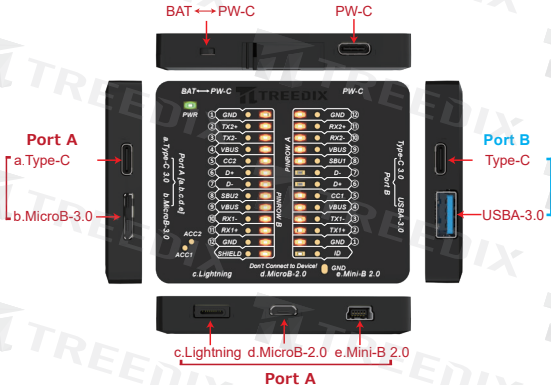


www.treedix.com
Email: contact@treedix.com



Direct access to the
official Treedix
product information
page

Key Interface Analysis



English

【WARNING】

- Ingestion hazard: This product contains button battery.
- Death or serious injury can occur if ingested.
- Kids stay away from button batteries.

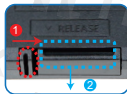
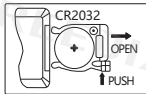


1.USB Cable Testing Instructions(EN)

1.Two Methods of Power Supply

1.1 【CR2032】

Press point ① of the battery holder with one finger and push it to the right. Hold area ② with the other finger, and then push both fingers outward simultaneously.



1.2 【Powered by DC 5V】

Connects to a DC 5V power source via a Type-C USB cable.

Note: You should extract the plastic insulating tab from under the supplied CR2032 cell before using.



2.Connection Steps

2.1 Insert one end of the USB cable to be tested into the **【USB Out】** port on the right side (supported types: USB-A, Type-C).

2.2 Insert the other end into the **【USB Input】** port on the left side (supported types: Type C 3.0, Micro B 3.0, Mini B 2.0, Lightning, Micro B 2.0).

3.Status Indicator Explanation

3.1 LED indicator on: Indicates that the corresponding function of the cable is normal.

3.2 LED indicator off : The cable lacks the required pins for this function, or the function is faulty.

4.After Testing:

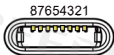
4.1 Remove the USB cable from the ports and turn off the device's power switch.

Note: If all LEDs remain off, check the battery level and inspect for oxidized contacts.

The diagram shows the TREEDIX Type-C to USB-A adapter with the following details:

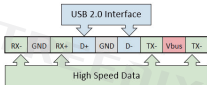
- Top Labels:** BAT ↔ PW-C, TREEDIX, PW-C.
- Left Side (Type-C Port):**
 - Pin 1: GND
 - Pin 2: TX2+
 - Pin 3: TX2-
 - Pin 4: VBUS
 - Pin 5: CC2
 - Pin 6: D+
 - Pin 7: D-
 - Pin 8: SBU2
 - Pin 9: VBUS
 - Pin 10: RX1-
 - Pin 11: RX1+
 - Pin 12: GND
 - Shield: SHIELD
- Right Side (USB-A Port):**
 - Pin 1: GND
 - Pin 2: RX2+
 - Pin 3: RX2-
 - Pin 4: VBUS
 - Pin 5: SBU1
 - Pin 6: D-
 - Pin 7: D+
 - Pin 8: CC1
 - Pin 9: VBUS
 - Pin 10: TX1-
 - Pin 11: TX1+
 - Pin 12: GND
 - ID: ID
- Bottom Labels:**
 - Don't Connect to Device!
 - c. Lightning
 - d. MicroB-2.0
 - e. Mini-B 2.0

Lightning



Pin 1	GND	Ground
Pin 2	L0P	Lane 0 Positive
Pin 3	L0n	Lane 0 negative
Pin 4	ID0	Identification/control 0
Pin 5	PWR	Power(charger/battery)
Pin 6	L1n	Lane 1 negative
Pin 7	L1p	Lane 1 positive
Pin 8	LD1	Identification/control 1

USB 3.0



Type-A 3.0



Mini-B 2.0

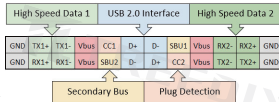


Micro-B 2.0



Micro-B 3.0

USB Type-C

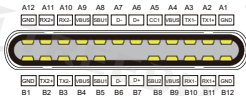


Female Connector



Type-C 3.0

Male Connector



Type-C 3.0

3. USB Cable Tester Pinouts

PinrowB	Name	Description
B1	GND	Ground
B2	TX2+	Superspeed Differential Pair 3 TX
B3	TX2-	Superspeed Differential Pair 3 TX
B4	VBUS	Bus Power
B5	CC2	Configuration Channel
B6	D+	USB Data Positive Electrode
B7	D-	USB Data Minus
B8	SBU2	Side Band Use(SBU)
B9	VBUS	Bus Power
B10	RX1-	Super Speed Differential Pair 2 RX
B11	RX1+	Super Speed Differential Pair 2 RX
B12	GND	Ground

PinrowA	Name	Description
A12	GND	Ground
A11	RX2+	Super Speed Differential Pair 4 RX
A10	RX2-	Super Speed Differential Pair 4 RX
A9	VBUS	Bus Power
A8	SBU1	Side Band Use (SBU)
A7	D-	USB Data Minus
A6	D+	USB Data Positive Electrode
A5	CC1	Configuration Channel
A4	VBUS	Bus Power
A3	TX1-	SuperSpeed Differential Pair 1 TX
A2	TX1+	SuperSpeed Differential Pair 1 TX
A1	GND	Ground

4. USB Cable Function Identification Table

USB Cable Function	Pinrow B											
	GND	TX2+	TX2-	VBUS	CC2	D+	D-	SBU2	VBUS	RX1-	RX1+	GND
Charging												
Charging, Data Transmission												
Charging, High-Speed Data Transmission												
Charging, High-Speed Data Transmission, Audio and Video Transmission												
Lightning (Type A-Lightning)												

5. Instructions for Use:

1.Measurement Types: Type-C 3.0, Micro-B 3.0, Micro-B 2.0, Mini-B 2.0, Lightning.

Due to the wide variety of USB cable types, we have listed some methods for identifying certain USB cables in the table. However, it is important to note that the method for identifying USB data cables remains the same. Therefore, this table is for reference only and may not include information on all USB cables.

PinrowA											
GND	RX2+	RX2-	VBUS	SBU1	D-	D+	CC1	VBUS	TX1-	TX1+	GND
											
											
											

2. Note: ① After the power is turned on and the USB cable is inserted, the LED light will light up.

② Please note that short-circuited pin, diodes, active electronics, or other cable fault may lead to inaccurate results.

▲ Warning: Don't Connect To Device!!!