TI Bluetooth® Adapter
Setup Guide

Model name: TI Bluetooth®

Learn more about TI Technology through the online help at education.ti.com/eguide.

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TI Bluetooth® Adapter

What is TI Bluetooth® Adapter?

The TI Bluetooth® Adapter connects to an Evo, CE Python, or CX II graphing calculator to provide Bluetooth® connectivity. It allows the graphing calculator to talk to a single supported Bluetooth® accessory at a time.

Note: The minimum OS versions needed to support the adapter

- Evo OS: v.7.1 or later
- CE OS: v.5.8 or later
- CX II OS: v.6.0 or later

Products Supported

Support for TI Bluetooth® Adapter on Python enabled Evo graphing calculators

- TI-84 Evo
- TI-84 Evo-T

Support for TI Bluetooth® Adapter on Python enabled CE graphing calculators

- TI-83 Premium CE Edition Python
- TI-84 Plus CE Python
- TI-84 Plus CE-T Python Edition

Support for TI Bluetooth® Adapter on Python enabled CX II graphing calculators

- TI-Nspire™ CX II
- TI-Nspire™ CX II CAS
- TI-Nspire™ CX II-T
- TI-Nspire™ CX II-T CAS
- TI-Nspire™ CX II-C CAS

Note: All products supported are Python enabled.

TI Bluetooth® Adapter – Overview

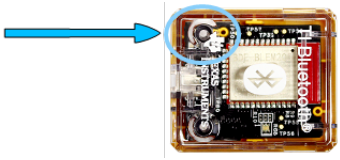
Micro USB Port for connecting to Evo, CE Python, or CX II graphing calculator

- Use a USB Mini to USB C adapter, to connect the TI Bluetooth® Adapter to TI-84 Evo or TI-84 Evo-T graphing calculator
  Note: the USB Mini to USB C adapter, is available from an instructional dealer or TI's online store.
- Use a mini-A-to-micro-B cable to connect the TI Bluetooth® Adapter to CE Python or CX II graphing calculator
- Use a Standard A-to-micro-B PC cable to connect the TI Bluetooth® Adapter to a PC for sketch updates

No battery needed – powered by connecting to an Evo, CE Python, or CX II graphing calculator

Top view of TI Bluetooth® Adapter.

- Power indicator (green LED) is located next to the USB port



Setup: TI Bluetooth® Adapter and Graphing Calculator

1. Identify the "**micro-B**" connector on the cable provided

2. Insert the "**micro-B**" connector into the **B** port at the bottom of the TI Bluetooth® Adapter.

3. Insert the free end of the cable (the "**A**" connector) into the USB port on the graphing calculator.

4. Turn on the calculator if it is not already on.

   The power LED on the TI Bluetooth® Adapter glows green to show that it has been recognized by the calculator and is receiving power.

Note: When using a TI-84 Evo or TI-84 Evo-T graphing calculator, the USB Mini to USB C adapter is available from an instructional dealer or TI's online store.

Communicate with TI Bluetooth® Adapter

Configuring the TI Bluetooth® Adapter on Evo graphing calculators

Refer to the Evo eGuides at education.ti.com/eguide for configuring the adapter for Evo or Evo-T Python enabled graphing calculators.

Configuring the TI Bluetooth® Adapter on CE Python graphing calculators

Refer to the CE eGuides at education.ti.com/eguide for configuring the adapter for CE Python graphing calculators.

Configuring the TI Bluetooth® Adapter on TI-Nspire™ CX II graphing calculators

Refer to the TI-Nspire™ eGuides at education.ti.com/eguide for configuring the adapter for TI-Nspire™ CX II graphing calculators.

TI Bluetooth® Adapter Sketch

The sketch is the software that runs on the TI Bluetooth® Adapter and manages the Bluetooth® connections.

The sketch can be updated to the latest release using the TI Bluetooth® Adapter update software.

TI Bluetooth® Adapter Update Software

Free Windows computer software to update the Sketch on the TI Bluetooth® Adapter over USB

- Auto-detects the TI Bluetooth® Adapter
  - If there are multiple connected adapters, the software will select first device it detects

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Steps to update the sketch on the TI Bluetooth® Adapter

1. Download the update software from the TI website at: education.ti.com/bluetooth
2. Install and launch the software
3. Download the latest sketch from the TI website at: education.ti.com/bluetooth
4. Connect the TI Bluetooth® Adapter to the PC using a standard A-to-micro-B PC cable
5. The update software will detect the adapter and enable the update button
6. Do not disconnect the TI Bluetooth® Adapter while the update is in progress.
7. The software will inform you once the update is done. You can disconnect the TI Bluetooth® Adapter and connect another one that needs to be updated.

General Precautions

TI Bluetooth® Adapter

- Do not expose the TI Bluetooth® Adapter to temperatures above 140F (60°C).
- Use only the USB cable provided with the TI Bluetooth® Adapter when connecting to a TI graphing calculator.

Additional Information:

- **Operating Temperature:** 0°C to 45°C
- **Operating Voltage:** 5Vdc
- **Operating Current:** 20mA
- **Dimensions:**
  - Length = 1.60 in.
  - Width = 1.42 in.
  - Depth = 0.86 in.
- **Weight:** 0.72 oz.

General Information

Online Help

education.ti.com/eguide

Select your country for more product information.

Contact TI Support

education.ti.com/ti-cares

Select your country for technical and other support resources.

Service and Warranty

education.ti.com/warranty

Select your country for information about the length and terms of the warranty or about product service.

Limited Warranty. This warranty does not affect your statutory rights.

License Information

education.ti.com/license

Select your country for more license information.

Regulatory

- FCC Statement
- Canada Declaration

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.

The SAR limit of USA (FCC) is 1.6 W/kg (Bluetooth Dongle is 1.2 W/kg) averaged over one gram of tissue. Device types BDE BLE Module (FCC ID: 2ABRUBDLEM205) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.164 W/kg and for head is 0.164 W/kg. Simultaneous RF exposure is not applicable. This device was tested for typical body-worn operations with the back of the handset kept 5mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 5mm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Canada Declaration

Canada IC RSS-GEN Issue 5 section 4.3 – "Contains transmitter module IC: 25657-BLEM205"

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-3(B)/NMB-3(B)