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C E Electronics CE3871-0 Powertool Transceiver Module

Specifications

- Product Name: Powertool Transceiver Module CE3871
- Manufacturer: C.E. Electronics, Inc.
- Model: CE3871
- IC: 8507A-CE3871
- Frequency Range: 2.410 GHz – 2.465 GHz

Product Usage Instructions

- The designated cable in the tool should be plugged into the J1 connector.
- The J2 connector is for development purposes and should remain unconnected.
- Mount the module at least 5mm from the outside edge of the product.
- The module’s operation is automated. Attach it to the tool, power it on, and it will establish communication with the tool.
- It will attempt to wirelessly connect to the previous controller; if not found, it will scan through available channels to find a new controller.

CE3871-0 & CE3871-1 Operation Instructions

Assembly

- The designated cable in the tool should be plugged into the J1 connector.
- The J2 connector is used for development and should be left unconnected by the user.
- The module must be mounted at least 5mm from the outside edge of the product.

Operation

- Module operation is entirely automated.
- Once attached to the tool and powered on, the module will automatically begin communication with the tool and attempt to connect wirelessly to the previous controller.
- If the previous controller cannot be found at power-up, the module will automatically scan through the available channels to find a new controller.

Channel Frequencies

Channel	Frequency (GHz)
1	2.410
2	2.415
3	2.420
4	2.425
5	2.430
6	2.435
7	2.440
8	2.445
9	2.450

10	2.455
11	2.460
12	2.465

FCC STATEMENT

Regulatory Information

United States (FCC)

CE3871 Modules comply with Part 15 of the FCC rules and regulations. Compliance with the labeling requirements, FCC notices and antenna usage guidelines is required.
To fulfill FCC Certification, the OEM must comply with the following regulations:

1. The system integrator must ensure that the text on the external label provided with this device is placed on the outside of the final product.

OEM labeling requirements

WARNING! As an Original Equipment Manufacturer (OEM) you must ensure that FCC labeling requirements are met. You must include a clearly visible label on the outside of the final product enclosure that displays the following content:
Contains FCC ID: O4O-CE3871
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.

FCC notices

IMPORTANT: CE3871 Modules have been certified by the FCC for use with other products without any further certification (as per FCC section 2.1091). Modifications not expressly approved by C.E. Electronics could void the user's authority to operate the equipment.
IMPORTANT: OEMs must test the final product to comply with unintentional radiators

(FCC section 15.107 & 15.109) before declaring compliance of their final product to Part 15 of the FCC Rules.

IMPORTANT: The module has been certified for remote, base, and portable radio applications. If the module will be used for portable applications, the device must have a minimum of 5mm separation from the operator.

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: Re-orient or relocate the receiving antenna, Increase the separation between the equipment and receiver, Connect equipment and receiver to outlets on different circuits, or Consult the dealer or an experienced radio/TV technician for help.

ISED (Innovation, Science and Economic Development Canada)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-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.

Labeling requirements

- Labeling requirements for Industry Canada are similar to those of the FCC. A clearly visible label on the outside of the final product enclosure must display the following text:
- Contains Model Powertool Transceiver Module CE3871, IC: 8507A-CE3871
- The integrator is responsible for its product to comply with IC ICES-003 & FCC Part

15, Sub. B – Unintentional Radiators. ICES-003 is the same as FCC Part 15 Sub. B and Industry Canada accept FCC test report or CISPR 22 test report for compliance with ICES-003.

- Modifications not expressly approved by C.E. Electronics could void the user's authority to operate the equipment.

Firmware Version Identification number (FVIN)

- CE3871 firmware versions are 5.x or 6.x. FVIN is displayed on the controller with which the module is communicating.

CONTACT

- C.E. Electronics, Inc.
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FAQ

Q: How do I know if the module is connected to a controller?

A: The module will automatically establish a connection with the controller when powered on. You can check for successful connection indicators on the tool or controller interface.

Q: Can I use the J2 connector for any purpose?

A: The J2 connector is intended for development purposes only and should not be connected during normal operation to avoid interference with the module's functionality.

Documents / Resources

	C E Electronics CE3871-0 Powertool Transceiver Module [pdf] Instruction Manual CE3871-0, CE3871-1, CE3871-0 Powertool Transceiver Module, CE3871-0, Powertool Transceiver Module, Transceiver Module, Module

References

- User Manual

C E Electronics

C E Electronics, CE3871-0, CE3871-0 Powertool Transceiver Module, CE3871-1, Module, Powertool Transceiver Module, Transceiver Module

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