

1. Product Overview

1-1. Overview

The TX—M2830 model is designed for wireless data transmission and reception under the Zigbee, BLE communication standard, an RF transceiver and External Antenna via U.FL connector.

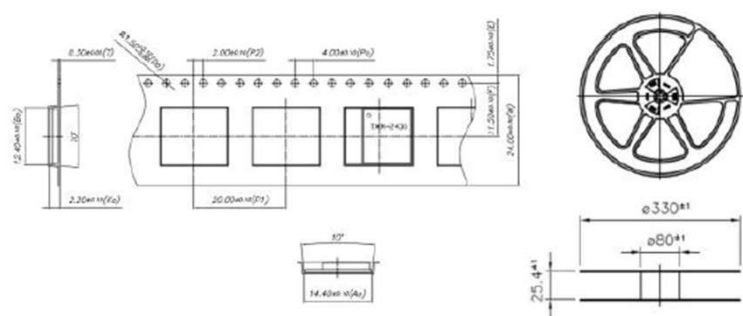
1-2. Features

Wireless	Zigbee, BLE
Voltage	2.8V ~ 3.6V
Communication	UART

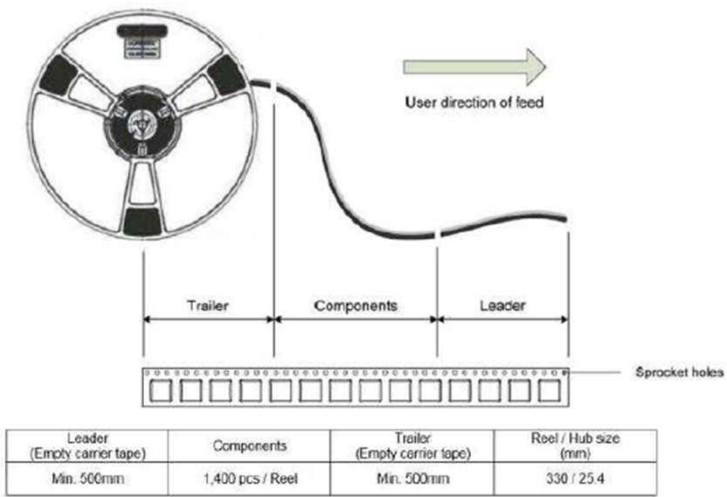
2. Components

2-1. The TX-M2830 wireless module is supplied in tape-and-reel packaging.

11.1 Carrier Tape and Reel Information



11.2 Leader and Trailer length



3. Product Specifications

Model Name	TX-M2830
Dimensions	14.0 x 12.0 x 1.9 mm
Power Supply	DC 3.3V
Operating Temperature	-30°C to +80°C
Interface	UART
Wireless Standard	Zigbee, BLE
Frequency Range :	2.402 ~ 2.485GHz
Number of Channels :	16 Channels, BLE : 40Channels
Antenna type :	On-Board PCB Pattern Antenna

4. User Manual

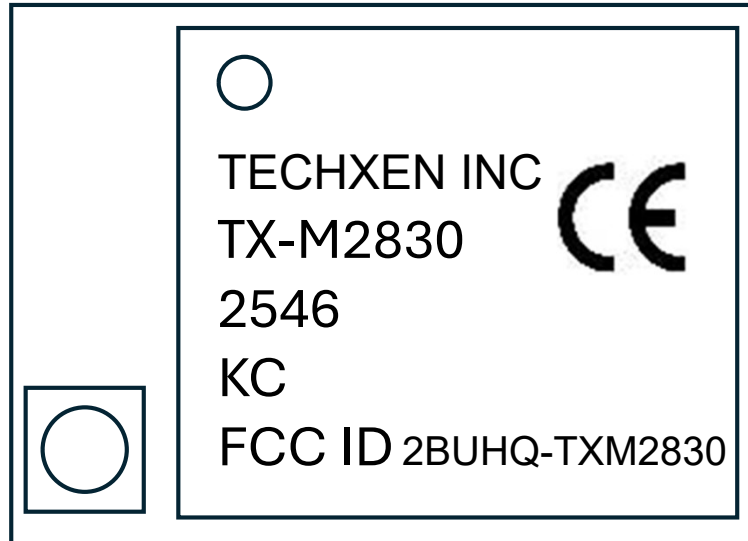
4-1. Pin Description

Pin No.	Pin Name	Type	Description
12	VDD	Power	3.3V Power Supply
1,11, 13, 30	GND	Ground	Ground
22	TXD	I/O	UART Transmit
21	RXD	I/O	UART Receive

4-2. Operation description

- (1) Power the module by applying 3.3V to the VDD pin of the wireless module.
- (2) The module is controlled by a host microcontroller (MCU) via a UART interface.
- (3) Configure the module by sending commands via the TXD/RXD pins, discover and register with the network and transmit and receive data.

Note : How to display the FCC ID Certification mark For very small devices, the mark may appear in the user manual



FCC Compliance 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.

FCC Interference Statement

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 correct the interference by one 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 which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

End Product Labeling The module is labeled with its own FCC ID. If the FCC ID are not visible when the module is

installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labeled in a visible area with the following: "Contains FCC ID: 2BUHQ-TXM2830

Information on test modes and additional testing requirements

-OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, additional transmitter in the host, etc.).

Additional testing, Part 15 Subpart B disclaimer

-The final host product also requires Part 15 subpart B compliance testing with the modular transmitter installed to be properly authorized for operation as a Part 15 digital device.