TW5470



TW5470 Bluetooth 5 (BLE) Low Energy Transceiver Antenna

Overview

The TW5470 is a stand-alone Bluetooth 5 Low Energy transceiver with integrated antenna. It is designed for use in professional grade applications such as mobile asset tracking, building automation systems, smart buildings, industrial sensor networks, or as a fixed location beacon requiring persisted power.

The TW5470 BLE transceiver antenna embeds the state-of-the-art Nordic Semiconductor nRF52840 as the system core offering long range with low power consumption.

The TW5470 BLE 5 transceiver system is delivered with the u-Blox u-connectXpress software pre-installed, providing support for u-Blox Bluetooth low energy Serial Port Service, GATT client and server, beacons, NFC™, and simultaneous peripheral and central roles. u-connectXpress provides support for a host to easily configure connectivity using AT commands.

The TW5470 BLE 5 transceiver provides top grade security, thanks to secure boot, which ensures the module only boots up with original u-Blox u-connectXpress software.

The TW5470 core electronics are fit into a compact IP67 industrial enclosure with an integrated magnetic mount.

The TW5470 BLE 5 transceiver power and serial communications are supported via a lightweight 5M cable with RJ12 termination for plug and play integration into host processing platforms.



Features

- Bluetooth v5.0 (Bluetooth Low Energy)
- AT Command Interface
- · GATT Server and Client
- BLE Serial Port Service (SPS)
- Extended Data Mode (AT + data)
- Bluetooth Mesh
- Secure Boot

- · Power Save Modes
- Long Range up to 1400M
- Integrated Magnetic Mount
- IP67 Rugged Enclosure
- 5M Cable with RJ12 termination
- Industial Temperature Specifiation
- RS232 Serial Interface

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Specifications

Radio/Antenna	
Bluetooth	.1400 m* .8 dBm 94 dBm (1 Mbit/s)
Antenna Architecture	,
Command Mode	AT Command (u-connect)
BLE Features	GATT Client and Server Beacon mode
BLE Connections	Peripheral Mode (6 concurrent) Simultaneous Mode (8 in total)

Interface	
Pwr, Gnd, Standby Tx, RX Throughput Connector	780 Kbits/s
Mechanical	
Dimensions	Magnetic or Adhesive 5 m with RJ12 termination
Electrical	
Voltage Range	
Environmental	
Operating Temperature	40°C to +85°C IP67 Vertical axis 50G,other axis 30G 3 axis sweep – 15 min

Ordering Information:

33-5470-0 Bluetooth 5 (BLE) Low Energy tranceiver Antenna

Please refer to the Ordering Guide for the current and complete list of available products.



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Contact us: info@tallymatics.com
T: +1 613 591-3131

Tallymatics Inc.

36 Steacie Drive,

Ottawa ON

Tallymatics manufactures high performance, telematics products and solutions for a wide range of applications. With support for both RF wireless and data networks, Tallymatics enables high-resolution location awareness of mobile field assets across any type of wireless network. Tallymatics is a division of Tallysman.

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