

TarangMini™ RT08BL10 is a new generation Bluetooth® Low Energy (BLE) module from Melange Systems. These highly integrated ultra-low power devices are built around Realtek RTL8762CMF.

Powered by an ARM® Cortex™ - M4 processor the module features extremely simple interfacing options to provide wireless capabilities to any embedded products in industrial and automotive segments.

TarangMini™ RT08BL10 supports Bluetooth® v5.0 stack and multiple profiles based on customer's choice.



Applications

-  Beacon Applications
-  Electronic Instrument Cluster
-  Remote Control
-  Asset Tracking
-  Industrial Controls
-  Health Care Applications
-  Smart Home Automation
-  Home Appliances

Features

- Built-in Bluetooth® 5.0 stack and application profiles with simple API host interface on UART.
- Supports transparent UART mode (like SPP) for data transfer requirements (Default)
- Application and profile customization support for large volume procurements
- Compact footprint (11.5 mm x 13.5 mm)
- 2.4 GHz wireless operation supports up to 2Mbps air data rate.
- Wide power supply range (1.8 V to 3.6 V)
- Ultra-low power consumption.
- Wide temperature range (-40 to +85 degree C)
- Programmable RF transmit power up to 8 dBm.
- Excellent receiver sensitivity (-95 dBm)
- Rich peripheral support - UART, SPI, I2C, PWM, SWD
- Castellated SMT pads for easy and reliable PCB mounting.
- Environment friendly, RoHS compliant

