

Product Brief

Type 1WL-857 Module

Multi-technology fused LoRaWAN[®] module

Ultra-low power design for long battery life,
superior sensitivity and cost-effective tracking devices

Features

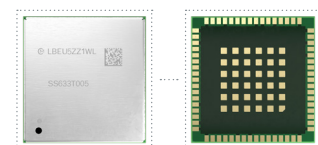
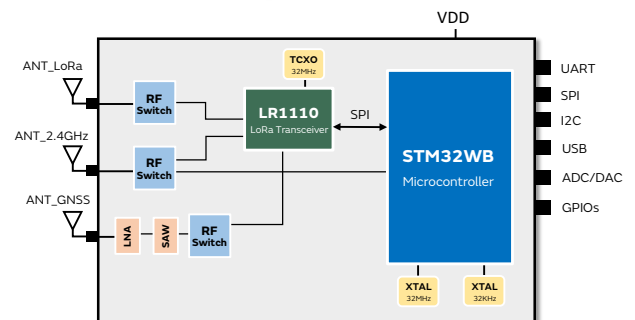
- STM32WB wireless microcontroller
 - Cortex-M4, RAM: 256kB, Flash: 1MB
 - Bluetooth[®] Low Energy transceiver
- SEMTECH LR1110 RF IC
 - LoRa[®] transceiver
 - Wi-Fi passive Scanner
 - Multi-Constellation GNSS Scanner (GPS & BeiDou)
- Low power consumption
- Package: LGA
- TCXO for maximum frequency accuracy
- RoHS: This module is RoHS compliant

Benefits

- Open MCU design for user's Application code
- Small/highly integrated Geolocation module available in the market
- Allows simple RF design with minimum additional components required
- Simplifies PCB design as fewer layers are required on the final PCB
- Single solution for both Indoor & Outdoor Geolocation use cases
- Reduces power consumption by determining asset location in a Cloud-based solver
- The module's RF certification can be reused for end-product certification
- Quick time to market solution
- Build/Develop applications with the extensive STMicro tools

Specifications

Product name	LBEU5ZZ1WL-857
Technology	LoRa, BLE, Wi-Fi Scanner, GNSS Scanner
Peripheral I/F	UART, SPI, I2C, USB, ADC/DAC, GPIOs
Dimensions	17 x 17.5 x 2.15 mm (max)
Operating Temperature	-30°C to 85°C
Regulatory certification	FCC, IC, CE, TELEC



Actual size:
17 x 17.5 mm