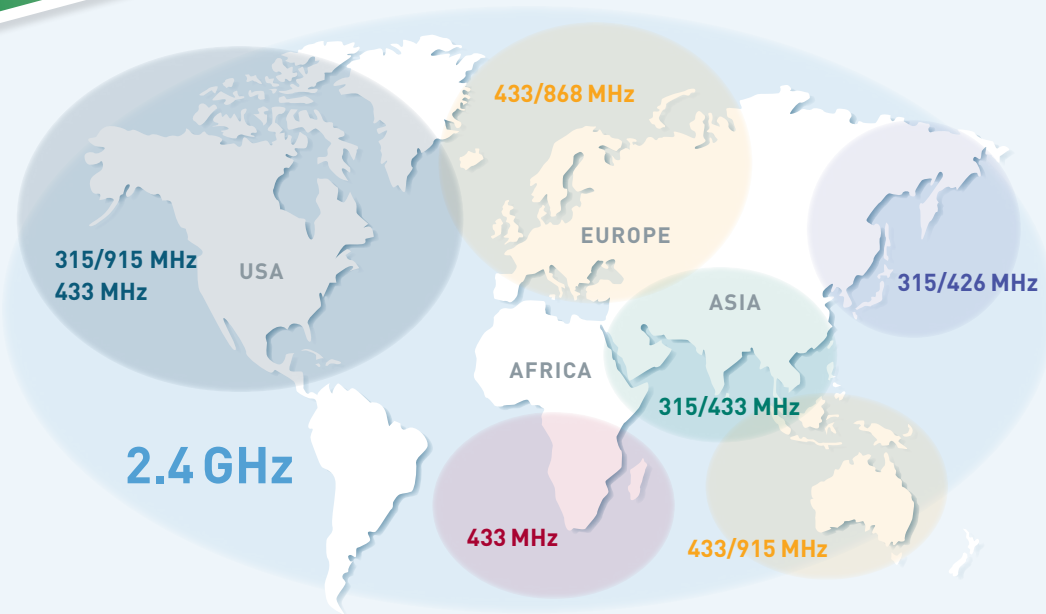


Short Range Products

NEW!



Telit designs wireless data transmission solutions for machine-to-machine applications.

Telit's product portfolio offers a wide range of innovative and reliable RF solutions ranging from ready-to-use wireless radio modems to OEM RF modules and RF design services.

Solutions from Telit operate in the license-free worldwide ISM frequency bands of 433 MHz, 868 MHz, 915 MHz, and 2.4 GHz and are available in both standardized and proprietary low-power, low-data rate RF technologies for the m2m/industrial markets.

The long-term experience and extensive expertise in cost-effective state-of-the-art radio solutions allow a significant reduction in TCO (total cost of ownership) and time-to-market. Additionally, having full IP stack ownership and a multi-chip vendor approach ensure continuity of supply and highly reliable products.

433 MHz band

- Frequency: 433.05 – 434.79 MHz
- Application: Europe, Australia, South Africa
- Standard: ETSI 300-220
- Power: 10 mW
- Duty cycle: 10% to 100%
- Family: TinyOne™ Lite

915 MHz band

- Frequency: 902.00 – 928.00 MHz
- Application: U.S., Canada, Australia
- Standard: FCC 15.247
- Power: 1 W with possibility to have 6dB gain antenna
- Duty cycle: Frequency Hopping Spread Spectrum, 400 ms allowed per channel, hop on 50 channels min
- Families: TinyOne™ Plus/Pro

868 MHz band

- Frequency: 868.00 – 870.00 MHz
- Application: Europe
- Standard: ETSI 300-220
- Power: 5 to 500 mW (Depending on sub-band)
- Duty cycle: 0.1 to 100% (Depending on sub-band)
- Families: -TinyOne™ Lite/Plus/Pro -PowerOne™

2.4 GHz band

- Frequency: 2400 – 2483.5 MHz
- Application: Worldwide
- Standard: IEEE 802.15.4
- Power: 10 mW to 100 mW
- Duty cycle: N/A
- Families: -TinyOne™ 2400 MC -ZE50-2.4 / ZE60-2.4 (ZigBee® compliant) -ZE51-2.4 / ZE61-2.4 (ZigBee® compliant)

The product line is based on two main family concepts: TinyOne™ and ZigBee®

TinyOne™ family, consisting of TinyOne™ Lite, TinyOne™ Plus, TinyOne™ Pro, and TinyOne™ 2400MC, is a complete line of products with a reduced form factor for easy integration. The family offers pin-to-pin compatibility and surface mount device (SMD) half moon technology that is dedicated to wireless applications operating in the ISM band (433, 868, 915 and 2.4GHz), thus providing efficient power consumption management, low-data rates, and long distance.

TinyOne™ Lite, TinyOne™ Plus, TinyOne™ Pro and TinyOne™ 2400MC are delivered with proprietary standard firmware (S-One stack) and proprietary mesh

firmware (M-One stack). Telit's stack is fully configurable and upgradeable over-the-air from a point-to-point communication to a star communication with listen before talk and allows mesh networking with efficient power consumption management. The efficient power management process enables multi-year battery powered operation, simple installation, and auto association including self healing and auto-repair functionalities as well as mobility functions.

ZigBee® ZE family offers an extremely compact form factor with complete pin-to-pin alignment. The family

consists of low-power digital radios based on the IEEE 802.15.4 standard at 2.4 GHz for wireless networks and uses a standard communication protocol dedicated to a range of markets and applications such as home automation and control, building automation, advanced metering, and telecom applications.

The ZigBee® ZE family OEM modules are based on the same concept while providing a small SMD component for optimized integration ranging from 1mW up to 100mW. The modules are offered with or without an embedded antenna and are available with the proven world-class in-house ZigBee® stack (Z-ONE).

