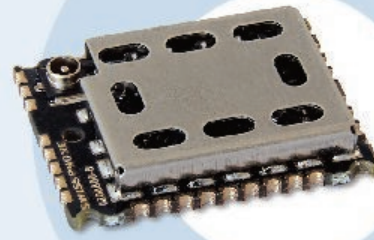# mioty® Module m.YON

Small and Flexible – For Demanding IoT Applications

Swissphone's mioty® end-point module is designed for applications that require an optimal bidirectional link budget while keeping cost to a minimum. The compact size and the flexible RF connection of the module enables it to be easily integrated on a large variety of IoT boards with on-board or external antennas. The module comes pre-loaded with Swissphone's mioty® firmware offering a serial AT-protocol over UART or binary SPI access.

Mioty® is a low power wide area network (LPWAN) technology that uses Telegram Splitting to achieve high interference resilience against radio transmissions of other radio sources within a dense and uncontrolled ISM environment. This makes mioty® an extremely robust and resilient LPWAN connection with excellent network coverage, energy efficiency and scalability, suitable also for mobile applications. In addition, mioty® integrates modern security features for today's most demanding IoT and industrial IoT (IIoT) applications.

Mioty® TS-UNB is standardized by the European Telecommunications Standards Institute (ETSI TS 103 357) and is thus the first non-proprietary radio data transmission standard for LPWAN in the license-free frequency band. For users, this ensures a high degree of future security with long-term investment protection and worldwide interoperability.

Key Performance Features

- Mioty® Class A end-point module
- Up to +18 dBm output power and -132 dBm sensitivity
- Compact LCC form factor: 18.0 × 14.3 × 3.0 mm
- Operating temperature range: -20 °C to +55 °C
- Optimized for license free SRD 868 MHz band in Europe
- Radio protocol: ETSI TS103357 TS-UNB / mioty alliance CVT compliant
- Compact SoC solution based on Silicon Labs EFR32FG14 radio
- Flexible RF interface (direct PCB / U.FL)
- Dual mode host interface (AT UART / binary SPI)
- Pre-loaded Class A EU868 modem stack with boot loader
- Variant for Class Z / US915W / IN866 on request

mioty alliance