

Low Power lot Reference Design

« A complete package including hardware, software, tools & recommendations to prototype and produce a cost-efficient final product in a very short time span »



- Hardware design
- Full software access



- Design fully validated Hardware & software
- validation reports







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- Testbench recommendations
- Firmware with test mode commands

Key Features

RF Characteristics:

- Frequency range 863MHz to 928MHz
- RX sensitivity: -136dbm
- TX conducted power up to 15dBm (EU) / 22dBm (US)

Microcontroller:

- STM32L0's family
- ARM Cortex-M0+ core

Certification:

- CE & FCC certification ready
- LoRaWAN™ EU868 & US915 certified

Sensor:

- Accelerometer
- · Temperature & humidity sensor
- · Easily adaptable to any sensor

Security:

Secure element

Software:

- LoRaWAN specification v1.1 compliant
- Real time operating system
- Kerlink Wanesy[™] device management compliant

Delivery content

Hardware:

- Full bill of materials (BOM) with referenced cost for 10k pieces
- Electronic plan:
- > Schematic
- > Layout

Documentation:

- Technical implementation recommendations
- Validation reports
- · Certifications recommendations
- Antenna characteristics recommendations
- Production recommendations

Software:

- Complete source code
- Development environment "plug and play"
- Documentation:
- > Source code documentation
- > Software environment description
- > Technical recommendations
- > Features descriptions
- > Build script descriptions

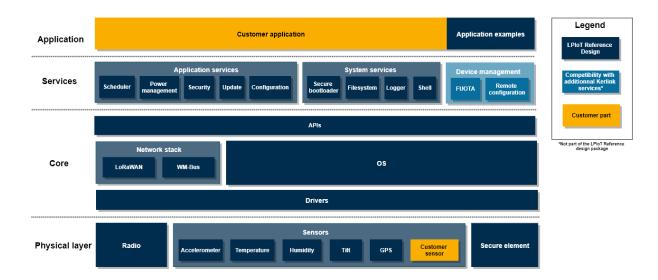
Tools:

- 1 Demonstration board
- 1 Evaluation board
- 1 Kerlink Wirnet[™] iFemtocell + Wanesy[™] SPN

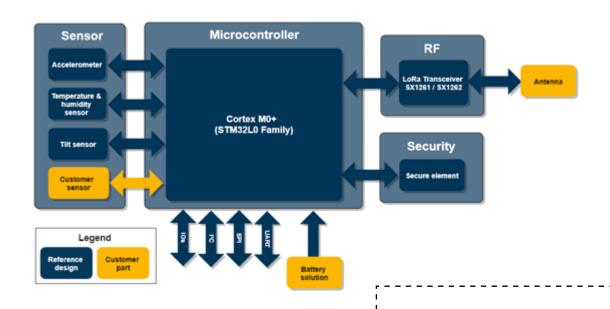


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Software architecture



Hardware architecture



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