



**Machine To Cloud
Solutions**

NB-IoT

Communication module

Product Brief
Ref. pb_NB-IoT
Rev. 1.0

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NB-IoT communication module for getting a quickly deploy of Internet of Things or Smart Factories applications

Features

- Quectel BC95 module
- Power modes: active, sleep and power down
- MicroSIM
- UART interface for external MCU

Characteristics

- Input voltage: from 3,3Vdc to 15Vdc
- Power consumption:
 - < 60mA @ 11Vdc. active
 - other modes: TBD

Wireless interface

- NB-IoT (3GPP LTE Cat. NB1)

Mechanicals

- Dimensions: 65x75 mm
- Weight: TBD
- Protection level: module

Operating environment

- Operating temperature:
 - Commercial: -15°C to +60°C
 - Industrial: -40°C to +80°C
- Operating humidity: 10% to 90% RH



Security

- AES for encryption
- MAC/HASH for message integrity
- X.509 certificates
- Dual authentication: server and connected object
- TLS over TCP/UDP

Available sensors

- GPS
- Inercial
- Temperature and humidity
- DALI or 0-10V. for lighting applications
- Energy meter
- Pulse counter for water metering
- 0-10V or 4-20mA. for reading from industrial sensors
- ModBus/RS485/RS232
- RFID readers
- Weight or force sensor



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