

# NB-IoT Module

## ME3616

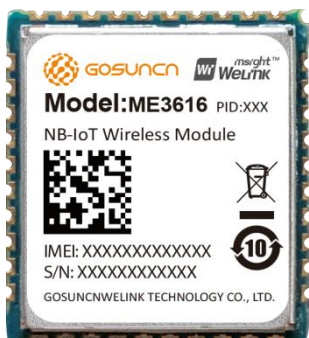
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|--|--|---|
|  LCC Form Factor             |  NB-IoT               |  CoAP/MQTT                      |
|  Ultra Low Power Consumption |  2 x UARTs            |  NB-IoT: DL 34 Kbps / UL 66Kbps |
|  -40°C ~ 85 °C               |  PSM & eDRX           |  eSIM                           |
|  Embedded TCP/UDP            |  Enhanced AT Commands |  Ultra low package              |

## M2M Application

**ME3616** is a ultra-packet NB-IoT module, The dimesions of ME3616 is 16\*18mm, it is fully compatible with 3GPP R14 standard, it can support eSIM, that means it can support mobility and lower power consumption, these three advantages make it more popular in Smart meter, Smart city, wearable devices and tracker industries.

ME3616 is designed for low-power, wide-area, massive IoT connection, multiple protocols including CoAP, TCP/UDP, MQTT, OMA-LWM2M, oneNET are embedded in it. ME3616 can support PSM and eDRX low-power working mode.





Notes: The pictures are just for reference, please in kind prevail.

## General Features

- ❑ LCC Form Factor (40 pins)
- ❑ Dimensions: 16mm × 18mm × 2.3mm
- ❑ Frequency Band : NB-IoT
- ❑ Pin to pin with MG2608-G

## ME3616 Series

PID	Band
E1A	B1,B3,B5,B8,B20,B28

## Electrical & Sensitivity

- ❑ Transmit Power:
  - NB-IoT:  $23 \pm 2.7$ dBm (Power Class 3)
- ❑ Power Supply :
  - 2.85V -- 3.6V(3.0V is recommended)

## Data Features

- ❑ NB-IoT
  - Max Uplink 66 Kbps / Downlink 34 Kbps

## Interfaces

- ❑ UART1
- ❑ UART2(For debug,2-wires)
- ❑ SIM interface (1.8/3.0V)
- ❑ eSIM(2\*2mm&5\*6mm)
- ❑ RF PAD for Primary Antenna
- ❑ Reset & Power-on
- ❑ ADC
- ❑ GPIO
- ❑ WAKEUP\_IN/WAKEUP\_OUT

## Applications

- ❑ Embedded CoAP/OMA-LWM2M/oneNET/MQTT
- ❑ TCP/UDP
- ❑ HTTP/HTTPS
- ❑ PSM&eDRX
- ❑ GOSUNCN extended AT commands

## Environmental

- ❑ Operation temperature: -30° C to +75° C
  - Extreme Operating temperature: -40° C to +85° C
- ❑ Storage temperature: -40° C to +85° C
- ❑ Humidity: 5%~95%

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