

## NB-IoT Module

## ME3616

 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. Due to its compact form factor, eSIM function and ultra-low 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 internet service protocols including CoAP, TCP/UDP, MQTT, OMA-LWM2M, oneNET are embedded in it. ME3616 can support PSM and eDRX low-power working mode. It also compatible with GSM/GPRS module MG2608-G, easy for future upgrading.





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
- ❑ Compatible with 3GPP R14 standard(Optional)

## ME3616 Series

PID	Band	Voltage Range
E1A	B1,B3,B5,B8,B20,B28	2.85V~3.6V (3.0V is recommended)
E1C	B1,B3,B5,B8,B20,B28	2.1V~3.6V (3.0V is recommended)

## Electrical & Sensitivity

- ❑ Transmit Power:
  - NB-IoT: 23 ±2.7dBm (Power Class 3)
- ❑ Power Supply :
  - E1A: 2.85V -- 3.6V(3.0V is recommended)
  - E1C: 2.1V -- 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%