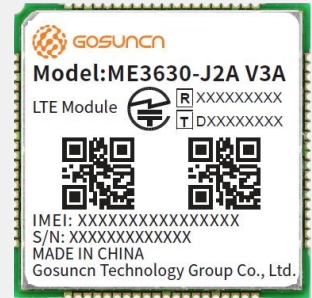


LTE/WCDMA Module ME3630

- ◆ QUALCOMM Inside
- ◆ VoLTE
- ◆ High performance
- ◆ Multi-functions



ME3630 is a wireless communication module based on LTE Cat.4 standard and designed for M2M and IoT applications.

Under the LTE standard, it can support up to 50Mbps uplink rate and 150Mbps downlink rate and can be backward compatible with existing WCDMA networks, ensuring that it can work normally in remote areas lacking 3G and 4G networks. Satisfy customers' application requirements for high-cost performance and low power consumption.

ME3630 module supports multiple network protocols (TCP/UDP/FTP/HTTP/MQTT/PAP/CHAP/PPP) and multiple functions (remote wake-up, FOTA, FILE, etc.), and can provide PCM/USB/UART/SDIO/I2C/SPI/USIM/SGMII/ADC and other rich hardware interfaces to meet different needs.

ME3630 can be widely used in industries such as consumer electronics, smart meter reading, wearable devices, CPE, Router, POS, industrial control, asset tracking, POC, and security systems in the M2M and IoT fields.

- Support LTE FDD/LTE TDD/WCDMA
- LCC+LGA package
- High cost performance and high reliability
- Support FTP/HTTP FOTA
- Support multiple network protocols
- Ethernet supported by SGMII
- Support rich hardware interfaces
- GNSS



LCC+LGA Package



Compatible design



LTE FDD/ TDD/ WCDMA



Audio



Multiple network protocols



FOTA



Certification



Industrial grade reliability

- ◆ QUALCOMM Inside
- ◆ VoLTE
- ◆ High performance
- ◆ Multi-functions

ME3630 Series

| PID | Band | Diversity | GNSS |
|---------|--|-----------|------|
| J2A V3A | LTE B1/B3/B8/B18/B19/B26/B39/B41 W B1/B6/B8/B19 | Yes | Yes |

General Features

- ❑ Package: 80 LCC+26 LGA pins
- ❑ Pin-to-Pin with LCC30*30
- ❑ Dimensions: 30mm × 30mm × 2.3mm
- ❑ Weight: About 4.0g
- ❑ GNSS(Optional)

Electrical characteristics

- ❑ Receiving characteristics:
 - Diversity reception (optional)
- ❑ Transmit power:
 - LTE: 23 ± 2.7dBm (Power Class 3)
 - WCDMA: 24 +1/-3dBm (Power Class 3)
- ❑ Voltage range:
 - 3.3V~4.2V (recommended value 3.8V)

Data characteristics

- ❑ LTE
 - LTE FDD 50Mbps(UL) / 150 Mbps(DL)
 - LTE TDD 30Mbps(UL) / 130Mbps(DL)
- ❑ UMTS
 - HSPA+ 21Mbps(DL)
 - HSUPA 5.76Mbps(UL)
 - WCDMA 384Kbps(DL) / 384Kbps(UL)

Interfaces

- ❑ USB 2.0 (Max. 480Mbps)
- ❑ UART × 2
- ❑ SIM (1.8/3.0V)
- ❑ ADC
- ❑ SPI
- ❑ I2C
- ❑ SDIO
- ❑ PCM
- ❑ LED
- ❑ Reset & Power-on
- ❑ Main & Diversity(Optional) antenna
- ❑ SGMII
- ❑ GNSS (Optional)

Applications

- ❑ FOTA/USB/UART update
- ❑ TCP/UDP/PPP/FTP/HTTP/HTTPS/MQTT
- ❑ Low-power applications
- ❑ ECM/RNDIS/PPP
- ❑ 3GPP TS27.005, 27.007
- ❑ GOSUNCN enhanced AT command
- ❑ Android 4.x/5.x/6.x/7.x/8.x/9.x RIL driver
- ❑ Windows 7/8/10 driver
- ❑ Linux 2.6 and above driver

Environmental adaptability

- ❑ Normal temperature range:-30°C ~ +75°C
- ❑ Extreme Operating temperature:-40°C ~ +85°C
- ❑ Humidity range: 5%~ 95%

Certification

- ❑ TELEC/JATE

Note: 1. * means function is under development.

2. The pictures of module is for reference only, please refer to the actual product .

