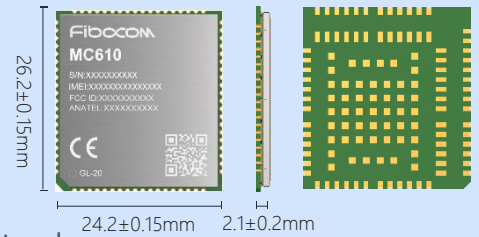


Fibocom MC610

LTE Cat1 bis wireless communication module designed for IoT applications

Product Advantages

- Coverage of multiple network standards with embedded rich network protocols
- Rich functional interfaces greatly expand the application field
- Provides IoT industry reference designs and customer development support
- High-performance LTE Cat1 bis IoT module with low-cost design and excellent cost performance



Release 13



LTE Cat1 bis



LCC+LGA package



Compatible design

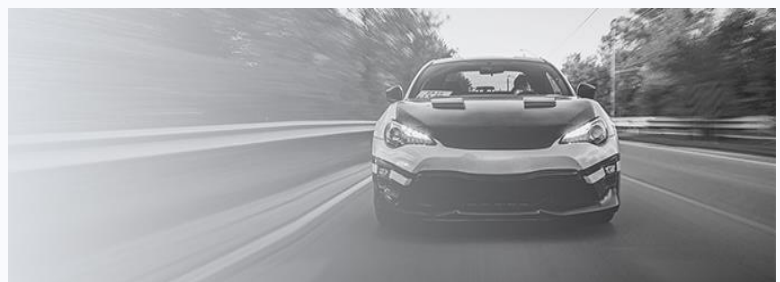


Fibocom Enhanced AT Commands

MC610 is an LTE Cat1 bis wireless communication module that adopts an LCC+LGA package with dimensions of 24.2mm26.2mm2.1mm. It is PIN-compatible with the MA510 series, allowing customers to switch with minimal cost. The MC610 covers major carrier bands worldwide. The module offers general interfaces such as USB, UART, SPI, and I2C to meet various application requirements in the IoT industry.

The product targets the mid-to-low-speed IoT market, including applications such as general payment, sharing, industrial interconnection, tracking, and vehicle aftermarket. It provides an excellent high-speed experience for customers in these fields.

MC610 supports dual-mode communication with LTE and GSM.



LTE Cat 1	MC610-GL-20	MC610-EU-20	MC610-LA-20
Region	Global	Europe	Latin America
Basic Features			
Package	LCC+LGA	LCC+LGA	LCC+LGA
Dimension (mm)	24.2×26.2×2.1	24.2×26.2×2.1	24.2×26.2×2.1
LTE FDD	B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66	B1/3/7/8/20/28	B1/2/3/4/5/7/8/28/66
LTE TDD	B34/38/39/40/41	B38/40/41	B38/40/41
WCDMA	NA	NA	NA
GSM/GPRS/EDGE	850/900/1800/1900MHz	900/1800MHz	850/900/1800/1900MHz
Power Supply	3.4V - 4.3V (Typical 3.8V)	3.4V - 4.3V (Typical 3.8V)	3.4V - 4.3V (Typical 3.8V)
Operating Temp	-35°C - +75°C	-35°C - +75°C	-35°C - +75°C
Extended Temp	-40°C - +85°C	-40°C - +85°C	-40°C - +85°C
Data Transmission			
LTE FDD (Mbps)	10.3(DL)/5.1(UL)	10.3(DL)/5.1(UL)	10.3(DL)/5.1(UL)
LTE TDD (Mbps)	9.1(DL)/3.1(UL)	9.1(DL)/3.1(UL)	9.1(DL)/3.1(UL)
GPRS(Kbps)	85.6(DL)/85.6(UL)	85.6(DL)/85.6(UL)	85.6(DL)/85.6(UL)
Memory			
Memory	4MB FLASH+8MB PSRAM	4MB FLASH+8MB PSRAM	4MB FLASH+8MB PSRAM
Functions			
WiFi-Scan	NA	NA	NA
BLE	NA	NA	NA
OpenCPU	NA	NA	NA
FOTA	DFOTA	DFOTA	DFOTA
OS Drivers	Linux/Windows/Android	Linux/Windows/Android	Linux/Windows/Android
GNSS	NA	NA	NA
TTS	NA	NA	NA
SMS	●	●	●
Audio	NA	NA	NA
Protocols	TCP(S)/UDP/IPV4/IPV6/HTTP(S)/FTP(S)/NTP/NITZ/MQTT/SSL/TLS/Ping	TCP(S)/UDP/IPV4/IPV6/HTTP(S)/FTP(S)/NTP/NITZ/MQTT/SSL/TLS/Ping	TCP(S)/UDP/IPV4/IPV6/HTTP(S)/FTP(S)/NTP/NITZ/MQTT/SSL/TLS/Ping
Interfaces			
SIM	x2, 1.8V/3.0V	x2, 1.8V/3.0V	x2, 1.8V/3.0V
USB	x1, USB2.0	x1, USB2.0	x1, USB2.0
UART	x3	x3	x3
ADC	●	●	●
SDIO	●	●	●
GPIO	●	●	●
SPI	●	●	●
I2C	●	●	●
Certification			
Regulation	RoHS2.0*/REACH*/FCC*/Anatel*/CE*/CC C*/SRRC*	CE*/ROHS2.0*/REACH*	FCC*/Anatel*/ROHS2.0*/REACH*
Operator	NA	NA	NA
Industry	NA	NA	NA

* = planning /under development ● = support

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