Fibocom L610-EU

LTE Cat1 bis Wireless Communication Module Specially Designed for IoT Applications

31mm | 28mm | 2.35mm

Key Benefits

- Support multiple network frequency bands and rich Internet protocols
- Rich extension of interfaces allowing much flexibility and ease of integration for customer's applications
- Provide IoT industry reference design and timely technical support to help customers quickly complete product development
- High performance LTE Cat1 bis IoT module with ultra-high cost performance

3GPP	Release 13
LTE Advanced	LTE Cat1 bis
LCC/LGA	LCC + LGA package
	Compatible design
	WiFi-Scan
AT	Fibocom Enhanced AT Commands
	BLE
	GNSS (Optional)
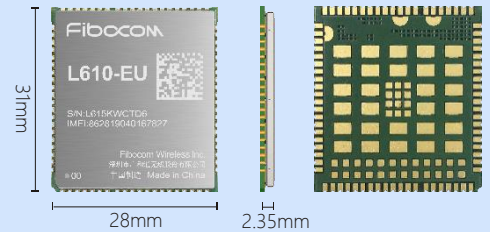
L610-EU is a LTE Cat1 bis wireless communication module adopting LCC+LGA form factor, with the size of 31mm* 28mm* 2.35mm. It is pin-to-pin compatible with Fibocom's LTE Cat 4 module NL668/L716, which is convenient for customers to migrate between different technologies at the lowest cost. L610-EU supports a rich extension of interfaces (USB/ UART/ SPI/ I2C/ SDIO), enabling much flexibility and ease of integration to meet various application demands of the IoT industry. The module has three regional version, with L610-EU covering the frequency bands of major operators in Europe, L610-CN for Asia, and L610-LA for Latin America respectively.

L610-EU perfectly suitable for low and mid-speed IoT scenarios, such as smart payment, sharing economy, industrial IoT, asset tracking, automotive aftermarket, etc., providing customers with reliable connectivity and robust security.

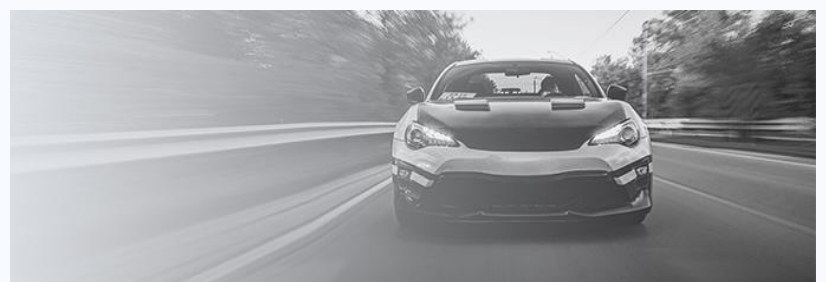L610-EU supports LTE and GSM networks, as well as VoLTE, BLE, WiFi-scan, and optionally GNSS.

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LTE Cat 1	L610-EU-00	L610-EU-01	L610-EU-32	L610-EU-06
Region	Europe	Europe	Europe	Europe
Basic Features				
Package	LCC+LGA	LCC+LGA	LCC+LGA	LCC+LGA
Dimension (mm)	28x31x2.35	28x31x2.35	28x31x2.35	28x31x2.35
LTE FDD	B1/B3/B7/B8/B20/B28	B1/B3/B7/B8/B20	B1/B3/B7/B8/B20/B28	B1/B3/B7/B8/B20/B28
LTE TDD	NA	NA	B38/B40/B41	NA
GSM/GPRS/EDGE	900/1800MHz	900/1800MHz	900/1800MHz	900/1800MHz
Power Supply	3.4V - 4.3V (Typical 3.8V)	3.4V - 4.3V (Typical 3.8V)	3.4V - 4.3V (Typical 3.8V)	3.4V - 4.3V (Typical 3.8V)
Operating Temp.	-30°C - +75°C	-30°C - +75°C	-30°C - +75°C	-30°C - +75°C
Data Transmission				
LTE FDD (Mbps)	10.3(DL)/5.1(UL)	10.3(DL)/5.1(UL)	10.3(DL)/5.1(UL)	10.3(DL)/5.1(UL)
LTE TDD (Mbps)	NA	NA	9.1(DL)/3.1(UL)	NA
GPRS(Kbps)	85.6 (DL)/85.6 (UL)	85.6 (DL)/85.6 (UL)	85.6 (DL)/85.6 (UL)	85.6 (DL)/85.6 (UL)
Functions				
WiFi-Scan	●	●	●	NA
BLE	●	●	●	NA
OpenCPU	●	●	●	●
FOTA	DFOTA	DFOTA	DFOTA	DFOTA
OS Drivers	Linux/Windows/Android	Linux/Windows/Android	Linux/Windows/Android	Linux/Windows/Android
GNSS	NA	NA	●	NA
TTS	NA	NA	NA	NA
SMS	●	●	●	●
Audio	●	●	●	●
Protocols	TCP/UDP(S)/HTTP(S)/FTP(S)/IPV4/IPV6/SSL/MQTT/NTP	TCP/UDP(S)/HTTP(S)/FTP(S)/IPV4/IPV6/SSL/MQTT/NTP	TCP/UDP(S)/HTTP(S)/FTP(S)/IPV4/IPV6/SSL/MQTT/NTP	TCP/UDP(S)/HTTP(S)/FTP(S)/IPV4/IPV6/SSL/MQTT/NTP
Interfaces				
SIM	x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V	x1, 1.8V/3.0V
USB	x1, USB2.0	x1, USB2.0	x1, USB2.0	x1, USB2.0
UART	x3(Standard Edition) x4(Open Edition)	x3(Standard Edition) x4(Open Edition)	x3(Standard Edition) x4(Open Edition)	x3(Standard Edition) x4(Open Edition)
SPI	●	●	●	●
ADC	x3	x3	x3	x3
GPIO	●	●	●	●
SDIO	x2	x2	x2	x2
I2C	●	●	●	●
I2S	●	●	●	●
Certification				
Regulation	RoHS/CE/NCC	RoHS/CE/NCC	RoHS/CE/NCC	RoHS/CE/NCC
Operator	TEF/DT/VDF	TEF/DT/VDF	TEF/DT/VDF	TEF/DT/VDF
Industry	GCF	GCF	GCF	GCF

* = planning /under development   ● = support