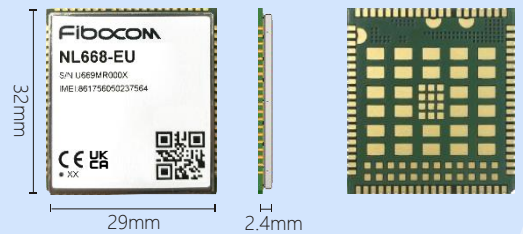# Fibocom NL668-EU

LTE Cat 4 Communication Module Specially Designed for IoT Applications

32mm
29mm
2.4mm

Key Benefits

• High value LTE Cat 4 module

• Worldwide LTE, WCDMA, GSM coverage

• Various Internal protocols

• High-performance chipset platform with low latency and high reliability

• Professional reference design and timely technical support to help customers quickly complete

product development.

LTE Cat 4	Fibocom's NL668-EU is a LTE Cat 4 wireless communication module which supports LTE network and WCDMA/ GSM fallback, delivering a maximum downlink rate of Cat 4 150 Mbps DL and uplink rate of 50 Mbps. The module adopts LCC+LGA form factor, with the size of 32.0*29.0*2.4mm. Featuring high performance, low latency and high reliability, it is mainly suitable for the IoT market in Europe.
LCC+LGA form factor	
Multiple memory configurations	The Fibocom NL668-EU module supports rich industry-standard interface and multiple Internet protocols, meeting the diverse hardware/ software demands of IoT products. The module enables seamless connectivity for a variety of IoT applications such as industrial router, industrial gateway, public security, C-V2X, etc.
VoLTE	NL668-EU series have multiple memory configurations, allowing fast and stable operation. It also supports diversity antenna to improve the quality and reliability of wireless connectivity.
GNSS	
USB2.0	
Fibocom Enhanced AT Commands	
Professional reference design and technical support	

Fibocom

LTE Cat 4	NL668-EU-05	NL668-EU-10	NL668-EU-30
Region	Europe		
Basic Features			
Package	LCC+LGA		
Dimension (mm)	29.0x32.0x2.4		
LTE FDD	B1/3/5/7/8/20		
LTE TDD	NA		
WCDMA	B1/5/8		
TD-SCDMA	NA		
EVDO	NA		
CDMA2000 1X	NA		
GSM/GPRS/EDGE	850/900/1800MHz		
Power Supply	3.3V - 4.3V (Typical 3.8V)		
Operating Temp	-30°C ~ +75°C		
Extended Temp.	-40°C ~ +85°C		
Antenna	Main, Div, GNSS		
ROM+RAM	2Gb+1Gb	1Gb+1Gb	4Gb+2Gb
Data Transmission			
LTE FDD (Mbps)	150(DL)/ 50(UL)		
LTE TDD (Mbps)	NA		
DC-HSPA+(Mbps)	42(DL)/ 5.76(UL)		
HSPA/HSPA+(Mbps)	NA		
WCDMA(kbps)	384(DL)/ 384(UL)		
TD-SCDMA (Mbps)	NA		
EVDO(Mbps)	NA		
CDMA2000 1X(kbps)	NA		
EDGE(Kbps)	296(DL)/ 236.8(UL)		
GPRS(Kbps)	107(DL)/ 85.6(UL)		
Functions			
VoLTE	●	Optional	●
eSIM	Optional	Optional	Optional
Remote SIM	Optional	Optional	Optional
eCALL	NA	NA	NA
OpenCPU	Optional	Optional	Optional
MUX	●	●	●
Jamming Detection	NA	NA	NA
USSD	●	●	●
STK	NA	NA	NA
LBS	●	●	●
FOTA	DFOTA	Optional	DFOTA
OS Drivers	Linux/Windows/Android	Linux/Windows/Android	Linux/Windows/Android
GNSS	●	●	●
MMS	NA	NA	NA
CSD	●	●	●
TTS	Optional	Optional	Optional
SMS	●	●	●
Analog Audio	NA	NA	NA
Digital Audio	●	Optional	●
Audio Play/Record	●	Optional	●
Protocols	TCP(S)/UDP/HTTP(S)/FTP(S)/IPv4/IPv6/SSL/TLS/MQTT/PING/NTP/FFS/NITZ/PPP/ECM/RNDIS/GobiNet/QMI_WWAN		
Interfaces			
SIM	x1, 1.8V/3.0V		
USB	x1, USB2.0		
PCIe	NA		
UART	x2		
SPI	●		
ADC	x2		
GPIO	●		
SDIO	●		
PCM	●		
SGMII	●		
Certification			
Regulation	CE-RED/RoHS/UKCA/REACH		
Operator	DT		
Industry	HF		

* =planning/under development