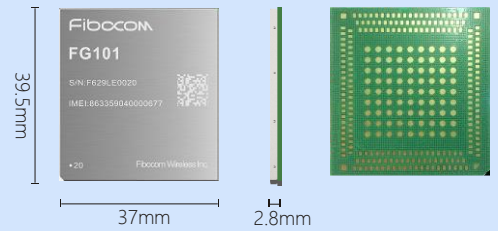


Fibocom FG101

LTE Cat 6/12 Module for IoT applications



Key Benefits

- High-performance LTE Cat 6/12 IoT module
- Compliant with 3GPP Release 12 standards, providing better 4G experience
- Support LTE-A/WCDMA multiple network standards
- GNSS receiver available for applications requiring fast and accurate positioning in any environment
- Professional reference design and timely technical support to help customers on product development



Release 12

Fibocom FG101 is a LTE Cat6/12 module featuring 3GPP Release 12 capabilities. The module adopts LGA form factor measuring 37x39.5x2.8mm. FG101 can also support LTE-TDD, LTE-FDD and WCDMA fallback.



LTE Cat 6/12



LGA Package

FG101 supports multi-constellation GNSS receiver (GPS/ Galileo/ GLONASS/ BeiDou), which provides high-performance positioning and navigation. Meanwhile, it supports a rich set of interfaces including USIM, USB 3.0/2.0, PCIe 2.0, PCM and UART, allowing much flexibility and ease of integration for customer's application. With multiple Internet protocols and industry-standard interfaces, FG101 can be used in a variety of cellular terminals such as CPE, Industrial router, IPC and ODU.



Optimized power consumption



Digital Audio and VoLTE (Optional)



GNSS



USB3.0 / PCIe



Fibocom Enhanced AT Commands



Professional reference design, evaluation kits



LTE Cat 6	FG101-NA-20	FG101-EAU-20	FG101-EAU-30
Region	North America	Europe, Asia Pacific, Australia	Europe, Asia Pacific, Australia
Basic Features			
Package	LGA		
Dimension (mm)	37x39.5x2.8		
LTE FDD	B2/4/5/7/12/13/14/17/25/26/29/30/66/71	B1/3/5/7/8/18/19/20/28/32	B1/3/5/7/8/18/19/20/28/32
LTE TDD	B41(194M)/46/48	B38/40/41(120M)	B38/40/41(120M)
WCDMA	B2/4/5	B1/3/5/8	B1/3/5/8
Antenna	2+1(GNSS)		
Power Supply	3.3v~4.4v, Typical 3.8V		
Operating Temp.	-30°C - +75°C		
AT Command	3GPP TS 27.007 and 27.005, Proprietary FIBOCOM AT Commands		
Data Transmission			
LTE(Mbps)	Max. 300 DL / Max. 50 UL		
WCDMA(Mbps)	Max. 42 DL / Max. 11 UL		
Enhanced Features			
Voice	VoLTE		
SMS	SMS over IP(IMS)		
Audio	●		
DFOTA	●		
GNSS	GPS/GLONASS/Galileo/BeiDou		
Software Features			
Driver	USB: Linux 2.6.38 and later/Windows7&10/Android7.x&8.x&9.x RL: Android7.x&8.x&9.x NDIS: Windows7&10 ECM: Linux 2.6.38 and later Gobinet: Linux 2.6.38 and later		
MBIM	Windows 10 and later/Linux 3.8 and later QMI WWAN: Linux 3.4 and later		
QMI WWAN	Linux 3.4 and later		
Network Protocol	TCP/UDP/FTP/HTTP/HTTPS/PING/LwM2M/SMS		
Interfaces			
USB	USB3.0/2.0		
PCIe	PCIe2.0		
UART	●		
SPI	●		
GPIO	●		
I2C	●		
SDIO	●		
UIM	●		
PCM	●		
MIPI	NA		
RGMII	NA		
Certification Approvals			
Regulation	IC*/FCC*/RoHS*/HF*	CE/UKCA/RCM/Reach/RoHS/HF	RoHS/HF/Reach/CE*/UKCA*/RCM
Operator	ATT*/VZW*/TMO*		DT*/VDF*/Telefonica*/Telstra*
Industry	GCF*/PTCRB*	GCF	GCF*

* = planning /under development ● = support

Fibocom Wireless Inc.

Telephone: +86 755-26733555 Post Code: info@fibocom.com
 Address: Floor 10 th,Tower A, Building 6, Shenzhen International Innovation Valley,
 Dashi 1st Rd, Nanshan, Shenzhen, China
 Official website: www.fibocom.com



LTE Cat 12	FG101-NA-00	FG101-EAU-00
Region	North America	Europe, Asia Pacific, Australia
Basic Features		
Package	LGA	
Dimension (mm)	37x39.5x2.8	
LTE FDD	B2/4/5/7/12/13/14/17/25/26/29/30/66/71	B1/3/5/7/8/18/19/20/28/32
LTE TDD	B41(194M)/46/48	B38/40/41(120M)/42/43/48
WCDMA	B2/4/5	B1/3/5/6/8/19
Antenna	4+1(GNSS)	
Power Supply	3.4v~4.3v, Typical 3.8V	
Operating Temp.	-30°C - +75°C	
AT Command	3GPP TS 27.007 and 27.005, Proprietary FIBOCOM AT Commands	
Data Transmission		
LTE(Mbps)	Max. 600Mbps(DL)/Max.150Mbps(UL)	
WCDMA(Mbps)	Max.42 Mbps(DL)/Max.5.76Mbps(UL)	
Enhanced Features		
Voice	VoLTE	
SMS	SMS over IP(IMS)	
Audio	●	
DFOTA	●	
GNSS	GPS/GLONASS/Galileo/BeiDou	
Software Features		
Driver	USB: Linux 2.6.38 and later/Windows7&10/Android7.x&8.x&9.x RIL: Android7.x&8.x&9.x NDIS: Windows7&10 ECM: Linux 2.6.38 and later Gobinet: Linux 2.6.38 and later	
MBIM	Windows 10 and later/Linux 3.8 and later QMI WWAN: Linux 3.4 and later	
QMI WWAN	Linux 3.4 and later	
Network Protocol	TCP/UDP/FTP/HTTP/HTTPS/PING/LwM2M/SMS	
Interfaces		
USB	USB3.0/2.0	
PCIe	PCIe2.0	
UART	●	
SPI	●	
GPIO	●	
I2C	●	
SDIO	●	
UIM	●	
PCM	●	
MIPI	NA	
RGMII	NA	
Certification Approvals		
Regulation	FCC*/IC*/TSCA*/RoHS*/HF*	CE/UKCA/Reach/RoHS/HF/RCM
Operator	ATT*/VZW*/TMO*	DT*/VDF*/Telefonica*/Telstra*
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