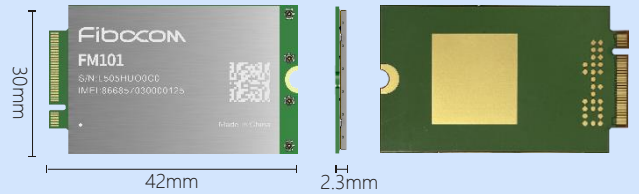


Fibocom FM101

LTE Cat 6 Module for IoT applications



Key Benefits

- High-performance LTE Cat 6 IoT module
- Compliant with 3GPP Release 12 standards, providing better 4G experience
- Support LTE-A/WCDMA multiple network standards
- Standard M.2 form factor with rich interfaces and high reliability
- 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 FM101 is a LTE Cat6 module compliant with 3GPP Release 12. The module FM101 support LTE-TDD, LTE-FDD and WCDMA fallback, delivering maximum downlink rates of 300Mbps and uplink rates of 50Mbps. FM101 module adopts M.2 form factor measuring 30x42x2.3mm.



LTE Cat 6



M.2 Package

FM101 also 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/I2S and UART, allowing much flexibility and ease of integration for customer's application. With multiple Internet protocols and industry-standard interfaces, FM101 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	FM101-NA-20	FM101-EAU-20	FM101-CG-20
Region	North America	Europe, Asia Pacific, Australia	CBRS Global
Basic Features			
Package	M.2		
Dimension (mm)	30x42x2.2		
LTE FDD	B2/4/5/7/12/13/14/17/25/26/29/30/66/71	B1/3/5/7/8/20/28/32	
LTE TDD	B41(194M)/42/43/46/48	B38/40/41(120M)	B42/43/48
WCDMA	B2/4/5	B1/3/5/8	
Antenna	2+1(GNSS)		
Power Supply	3.135v~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 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	NA		
UIM	•		
I2S	•		
MIPI	NA		
RGMII	NA		
Certification Approvals			
Regulation	FCC/IC/TSCA/RoHS/HF	CE/UKCA/RCM/Reach/RoHS/HF	FCC/HF/Reach/RoHS/TSCA
Operator	ATT/TMO*/VZW*		
Industry	GCF/PTCRB	GCF	

* = planning /under development • = support

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