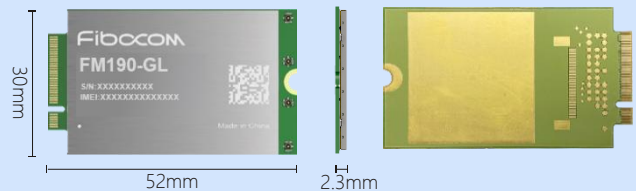


Fibocom FM190-GL

5G Sub-6 Module



Key Benefits:

- High-performance 5G wireless modules compliant with 3GPP R17 specifications
- Support for both SA and NSA network architectures
- Compatibility with global 5G frequency bands and certifications
- Excellent uplink capabilities, including FDD+FDD uplink carrier aggregation and FDD uplink MIMO
- Supports 1024QAM modulation, 300MHz bandwidth and supports downlink NR 5 Carrier Aggregation



Global 5G Bands



Release 17



M.2 Form Factor



PCIe4.0/USB3.1 High-Speed Port



Multi-constellation GNSS



Fibocom enhances AT Commands



Reference design and Application development support

Fibocom FM190-GL is a 5G Sub-6GHz Module which is compliant with the 3GPP Release 17 standard. Powered by the Qualcomm Snapdragon SDX75, it supports both 5G standalone (SA) and non-standalone (NSA) network architectures, which provides superior 5G experience connectivity and delivers optimized power consumption benefits for IoT applications.

The module is in an M.2 form factor with dimensions of 30*52*2.3mm, which offers up to 300MHz bandwidth and downlink NR 5CA, FDD+FDD uplink carrier aggregation, and FDD uplink MIMO in the NR Sub-6GHz, it., which delivering a high-speed experience in home, enterprise and manufacturing plants.

The FM190W-GL features rich network protocols and integrates multiple interfaces, including USB 3.1/3.0/2.0, PCIe 4.0/3.0, I2S, and more. It can be applied in applications such as gateways, video surveillance, industrial routers, drones, VR/AR, and more.



5G		FM190-GL
Region	Global	
Basic Features		
Chipset	SDX75	
Package	M.2	
Dimension (mm)	30 x 52 x 2.3mm	
Weight	TBD	
5G Sub-6	n1/2/3/5/7/8/12/13/14/18/20/25/26/29/30/34/38/39/40/41/46/48/53/66/67/68/70/71/75/76/77/78/79/90/91/92/93/94	
LTE FDD/TDD	TDD : B34/38/39/40/41/48/46/53 FDD : B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/70/71/75/76	
UMTS	B1/2/3/4/5/6/8/9/19	
CDMA	B0/1/10	
Antenna	4	
Memory	8Gb LPDDR4x+8Gb Nand Flash	
Power Supply	3.135V~4.4V, Typical 3.8V	
Operating Temp.	-40°C ~ +85°C	
Software Support	OpenWRT/RDK-B	
AT Command	3GPP TS 27.007 and 27.005, Proprietary FIBOCOM AT Commands	
Data Transmission		
NR SA	6.18Gbps(DL) / 900Mbps(UL)	
NR NSA	4.92Gbps(DL) / 555Mbps(UL)	
LTE	2.0Gbps(DL) / 211Mbps(UL)	
Enhanced Features		
Voice	VoLTE*/VONR*	
SMS	SMS over IP(IMS)	
Audio	•	
DFOTA	•	
GNSS	GPS/GLONASS/Galileo/BeiDou/QZSS/NavIC	
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	USB3.1/3.0/2.0 x 1	
PCIe	PCIe4.0/3.0x 1+PCIe3.0 x 2	
UIM	•	
I2S	•	

* = planning /under development • = support

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