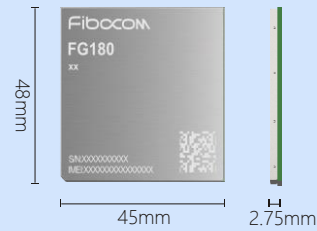


Fibocom FG180-NA

5G Sub-6 Module



Key Benefits:

- High-performance 5G wireless modules compliant with 3GPP R17 specifications
- Support for both SA and NSA network architectures
- Supports up to 200MHz bandwidth and downlink NR 3CA in the NR Sub-6GHz frequency band
- Supports 8-antenna reception (8RX) and PC1.5, providing higher rates and signal coverage capabilities.
- Global OS system supports OpenWRT and RDK-B



Release 17

Fibocom FG180-NA is a 5G wireless Module designing for North American market, which is compliant with the 3GPP Release 17 standard. Powered by the Qualcomm Snapdragon SDX72, it provides superior 5G experience and optimized power consumption, especially for FWA market and application.



LGA Package

The module features a new LGA packaging design with dimensions of 45*48*2.75mm. In the NR Sub-6GHz, it offers up to 300MHz bandwidth and downlink NR 5CA, FDD+FDD uplink carrier aggregation, and FDD uplink MIMO, which offering an excellent 5G high-speed experience.



Digital Audio /
VoLTE / VoNR

The FG180-NA 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 wide IoT applications such as CPE, mobile hotspots, gateways, video surveillance, drones, VR/AR, and more.



PCIe4.0/USB3.1 High-Speed
Port



Multi-constellation GNSS



Fibocom enhances AT
Commands



Reference design and
Application development
support



5G	
FG180-NA	
Region	North America
Basic Features	
Chipset	SDX72
Package	LGA
Dimension (mm)	45 x 48 x 2.75mm
Weight	TBD
5G Sub-6	n2/5/7/12/14/25/26/29/30/38/41/48/66/70/71/77/78
8RX	n25/66/41/77
LTE FDD	B2/4/5/7/12/13/14/17/25/26/29/30/66/71
LTE TDD	B38/41/42/43/48
MIMO	5G NR: DL 4x4 MIMO:n2/5/7/12/14/25/26/30/38/41/48/66/70/71/77/78 UL 2x2 MIMO:n25/41/48/66/71/77/78 LTE: DL 4x4 MIMO: B2/4/5/7/12/13/14/17/25/26/30/38/41/42/43/48/66/71
Antenna	4/6/8(Sub-6) + 1(GNSS)
Memory	1GB LPDDR4x+4GB eMMC Flash
Power Supply	3.3V~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	4.12Gbps(DL) / 900Mbps(UL)
NR NSA	4.096Gbps(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
PCIe	PCIe4.0/3.0x 1+PCIe3.0 x 2
UART	•
SPI	•
GPIO	•
I2C	•
PCM	•
UIM	•
I2S	•
MIPI-RFFE	x2
USXGMII	USXGMII x 2

* = planning /under development • = support

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