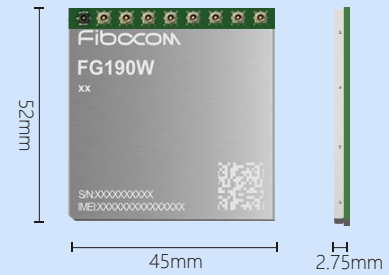


Fibocom FG190W-NA

5G Sub-6&mmW Module



Key Benefits:

- High-performance 5G wireless modules compliant with 3GPP R17 specifications
- Support for both SA and NSA network architectures
- Downlink support for 10CA in mmWave frequency bands and 5CA in NR Sub-6GHz frequency bands
- Supports 1024QAM in the Sub-6GHz frequency band and 256QAM based on ten-carrier aggregation
- Global OS system supports OpenWRT and RDK-B
- Innovative LGA design is compatible with both Sub-6GHz and mmWave antenna ports



Release 17

Fibocom FG190W-NA is a 5G Module designing for North American market, which is compliant with the 3GPP Release 17 standard. Powered by the Qualcomm Snapdragon SDX75, it provides superior 5G experience especially for FWA applications, offering optimized power consumption and multiple Wi-Fi 7 selections.



LGA Package

The module features a new LGA packaging design with dimensions of 45*52*2.75mm. It is compatible with both Sub-6GHz and mmWave antenna ports, which offers up to 300MHz bandwidth and downlink NR 5CA, FDD+FDD uplink carrier aggregation, and FDD uplink MIMO in the NR Sub-6GHz.



Digital Audio /
VoLTE / VoNR



PCIe4.0/USB3.1 High-Speed
Port

The FG190W-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.



Multi-constellation GNSS



Fibocom enhances AT
Commands



Reference design and
Application development
support



5G	
Region	North America
Basic Features	
Chipset	SDX75
Package	LGA
Dimension (mm)	45 x 52 x 2.75mm
Weight	TBD
5G mmW	n257/258/260/261
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	8(mmW) + 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	
FR1+FR2	10Gbps(DL) / 3.38Gbps(UL)
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
PCIe	PCIe4.0/3.0x 1+PCIe3.0 x 2
UART	•
SPI	•
GPIO	•
I2C	•
PCM	•
UIM	•
I2S	•
MIPI-RFFE	x2
USXGMII	USXGMII x 2



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* = planning /under development • = support

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