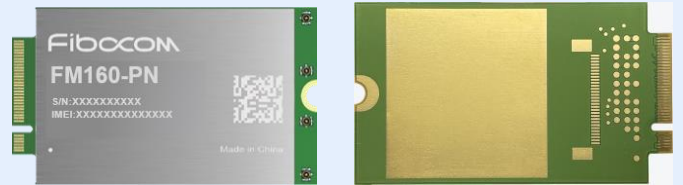# Fibocom FM160-PN

5G NR Sub-6 Module

Key advantage

- High-performance NR Sub-6 IoT module for private 5G network
- Leverages 3GPP Release16 technology to support NR CA and deliver a better 5G experience
- Standard M.2 package, extensive bus interface, high reliability
- Provides IOT industry reference design and customer development support
- Cybersecurity，Latency Management，Legacy Connectivity Replacement，Expanded Bandwidth

5G Private 5G Sub6 Network

3GPP Release 16

M.2 M.2 Package

PCIE4.0/USB3.1 high-speed port

AT Fibocom enhances AT Commands

Reference design and Application development support

Fibocom's 5G module - FM160-PN is a series of 5G communications modules for North American Private Mobile Networks that support proprietary 5G bands and Multi-MIMO technology.

FM160-PN is equipped with Qualcomm SDX62 chip, adopting 4nm manufacturing process that makes the module have better power performance.It adopts M.2 form factor, and measures 30*52*2.3mm. .It adopts M.2 form factor, and measures 30*52*2.3mm.

FM160-PN supports 3GPP Release 16 and NR CA. It has the standard M.2 interface, which enables customers to upgrade products quickly and respond to commercial needs of fast landing. It is suitable for Connected mining equipment, Enterprise networks, Smart utility networks, Drones, Smart city services, Stadium systems and services.

Fibocom

5G NR Sub6	FM160-PN
Region	North American
Basic Features	
Chipset	SDX62
Package	M.2
Dimension (mm)	30 x 52 x 2.3mm
Weight	~7.8g
5G Sub-6	n48/77/78
MIMO	DL 4x4 MIMO: n48/77/78 UL 2x2 MIMO: n48/77/78
Antenna	4
Memory	4Gb LPDDRX4 + 4Gb Nand Flash
Power Supply	3.135V~4.4V, Typical 3.8V
Operating Temp.	-40°C ~+85°C
AT Command	3GPP TS 27.007 and 27.005, Proprietary FIBOCOM AT Commands
Data Transmission	
NR SA	2.5Gbps(DL) / 900Mbps(UL)
NR NSA	3.5Gbps(DL) / 555Mbps(UL)
Enhanced Features	
SMS	SMS over IP(IMS)
DFOTA	●
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
GPIO	●
UIM	●
I2S	●

* =planning /under development