

5G Module FM150-NA



5G NR/LTE/WCDMA

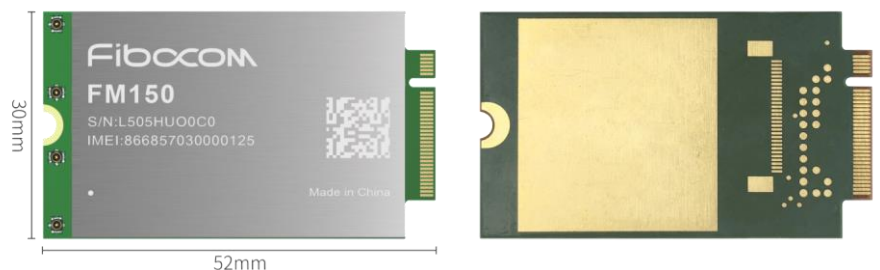
Sub 6GHz

SA & NSA

USB 3.1/PCIe 3.0

Fibocom's first global 5G module FM150-NA is a series of 5G communication modules for North America, which support both 5G SA and NSA network architectures with faster transmission speed, better carrying capacity, and lower network latency.

FM150-NA supports the 5G NR Sub6 band, and is compatible with LTE and WCDMA standards, eliminating customers' investment concerns in the initial stage of 5G construction and responding to the commercial demand of rapid landing. The region covers North America where 5G is first introduced, providing perfect high-speed experience for customers in the fields of tablet PC, gateway, industrial monitoring, remote medical treatment, UAV, virtual reality and immersive experience (VR and AR).



5G Module FM150-NA



Product Features

- Chipset: SDX55
- Support SA/NSA network architectures, support ENDC
- 5G Sub-6: n2, n5, n7, n12, n25, n41, n48, n66, n71, n78
- LTE: B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B41, B42, B43, B48, B66, B71
- LAA: B46
- WCDMA: B1, B2, B4, B5, B8
- MIMO:
 - 5G NR: DL 4*4 MIMO:n2,n7,n25,n41,n48,n66,n78,n71*
 - UL 1*1 MIMO
 - LTE : DL 4*4 MIMO: B2,B4,B7,B25,B30,B41,B42,B43,B48,B66,B71*
 - UL 1*1 MIMO

Basic parameters

- Factor: M.2
- Size: 30 x 52 x 2.3mm
- Operating Voltage: 3.3V~4.4V, Typical 3.8V
- Operating Temperature: -30~+75°C
- Extend Temperature: -40~+85°C
- AT Command Set: 3GPP TS 27.007 and 27.005, proprietary FIBOCOM AT commands
- Antenna: 4 Antennas
- GNSS: GPS/GLONASS/Beidou/Galileo/QZSS
- Support FOAT/DFOTA/VoLTE/Audio/eSIM(optional)

Data

Downlink:

- NR Sub6: 256QAM 1CC(100M) / SA Peak Rate 2.1Gbps
- LTE 256QAM 7CC(20Layers) / Peak Rate 2Gbps

Uplink:

- NR Sub6: 256QAM / Peak Rate 450Mbps
- LTE: 64QAM / Peak Rate 150Mbps

Interface

- GPIO
- I2S x2
- UIM x1
- USB3.1/3.0 x1
- USB2.0 x1
- PCIe3.0 x1

Driver

- Linux 4.1 / Android 9.0 / Windows 10 or later

Approval

- FCC*/PTCRB*/TMO*/AT&T*

Region

North America

Note: "*" = In progress / Planning

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