

5G Module FG150-AE



5G NR/LTE/WCDMA

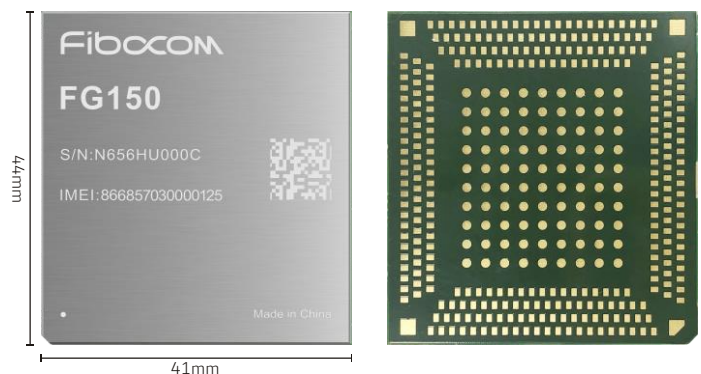
Sub 6GHz

SA & NSA

USB 3.1/PCIe 3.0

Fibocom's 5G module FG150-AE is a series of 5G communication modules for Asia/Europe/Australia, which support both 5G SA and NSA network architectures with faster transmission speed, better carrying capacity, and lower network latency.

FG150-AE 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 modules provide perfect high-speed experience for customers in the fields of gateway, industrial monitoring, remote medical treatment, drone, virtual reality and immersive experience (VR and AR).



5G Module FG150-AE



Product Features

- Chipset: SDX55
- Support SA/NSA network architectures, support LTE/WCDMA

Interface

- UART x1
- GPIO
- I2C x1
- SDIO x1
- I2S x2
- UIM x2
- USB3.1/3.0 x1
- USB2.0 x1
- PCIe3.0 x1
- SPI x1
- RGMII x1
- MIPI x2

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)

Model	FM150-AE-0X	FM150-AE-1X
Region	China	Asia/Europe/Australia(not include China)
5G Sub-6	n1,n28,n41,n78,n79	n1,n3,n5,n7,n8,n20,n28,n38,n40,n41,n77,n78,n79
LTE FDD	B1,B2,B3,B5,B7,B8	B1,B3,B5,B7,B8,B18,B19,B20,B28,B32
LTE TDD	B34,B39,B40,B41	B38,B40,B41,B42,B43
WCDMA	B1,B2,B5,B8	B1,B3,B5,B8,B19
MIMO: 5G NR DL	4*4MIMO: n1,n41,n78,n79	4*4MIMO: n1,n3,n7,n38,n41,n77,n78,n79
MIMO: 5G NR UL	2*2MIMO: n41,n78,n79	2*2MIMO: n41,n77,n78,n79
MIMO: LTE DL	4*4MIMO: B1,B2,B3,B7,B34,B39,B40,B41	4*4MIMO: B1,B3,B7,B32,B38,B40,B41,B42,B43
MIMO: LTE UL	1*1MIMO	1*1MIMO
Downlink	• NR Sub6: 256QAM 1CC(100M) / SA Peak Rate 2.1Gbps ; • LTE 256QAM 3CC(10Layers) CAT12 / Peak Rate 600Mbps	• NR sub6: 256QAM 1CC(100M) / SA Peak 2.1Gbps ; • LTE 256QAM 3CC(10Layers) CAT16 / Peak 1Gbps
Uplink	• NR Sub6: 256QAM / Peak Rate 900Mbps • LTE: 64QAM / Peak Rate 90.4Mbps	• NR sub6: 256QAM / Peak 900Mbps • LTE: 64QAM / Peak 150Mbps

Driver

- Linux 4.1 / Android 9.0/ Windows 10 or later

Approval

- CCC/SRRC/NAL/RoHS/CMCC/CUCC/CTCC
- CE/GCF/RCM/RoHS/HF

Note: * = Planning / In progress

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