

FG150-AE 5G Module

5G NR/LTE/WCDMA

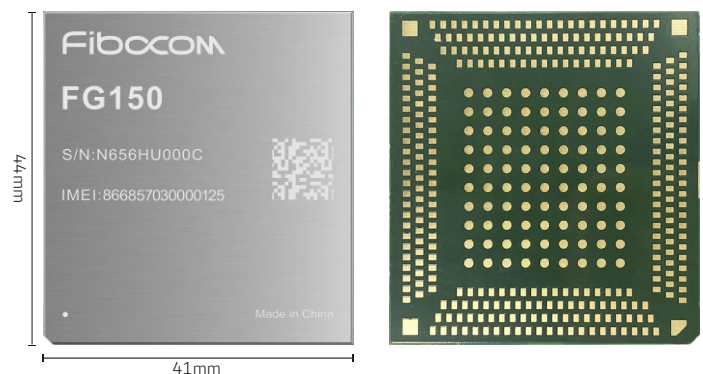
Sub 6GHz

SA & NSA

USB 3.0/PCIe 3.0

Fibocom's first global 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 region covers Asia/Europe/Australia where 5G is first introduced, providing perfect high-speed experience for customers in the fields of gateway, industrial monitoring, remote medical treatment, UAV, virtual reality and immersive experience (VR and AR).



FG150-NA 5G Module

Product Features

- Chipset: SDX55
- Support SA/NSA network architectures, support ENDC
- 5G Sub-6: n1, n3, n5, n7, n8, n20, n28, n38, n41, n77, n78, n79
- LTE FDD: B1, B2, B3, B5, B7, B8, B20, B25, B28, B32
- LTE TDD: B34, B38, B39, B40, B41, B42, B43*
- WCDMA: B1, B2, B5, B8
- MIMO:
5G NR: DL 4*4 MIMO: n1,n3,n7,n38,n41,n77,n78,n79
UL 2*2 MIMO: n41,n77,n78,n79
LTE : DL 4*4 MIMO:
B1,B3,B7,B32,B34,B38,B39,B40,B41,B42
UL 1*1 MIMO

Basic parameters

- Factor: LGA
- Size: 41 x 44 x 2.75mm
- Operating Voltage: 3.3V~4.4V, Typical 3.8V
- Operating Temperature: -30~+75°C
- AT Command Set: 3GPP TS 27.007 and 27.005, proprietary FIBOCOM AT commands
- Antenna: 6 Antennas + 1GPS
- GNSS: GPS/GLONASS/Beidou/Galileo
- Support FOAT/DFOTA/VoLTE/Audio/eSIM

Data

Downlink:

- NR sub6: Peak 2.9Gbps
- LTE: Peak 2.0Gbps

Uplink:

- NR sub6: Peak 900Mbps
- LTE: Peak 150Mbps

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

Driver

- Linux 4.1 / Android 9.0

Approval

- CCC/SRRC*/CE*/Rohs*/GCF*
- CMCC*/CUCC*/CTCC*/RCM*/Optus*/Telstra*/NC C*/KC*/Carriers(TBD)

Region

Asia/Europe/Australia

Note: * = Planning / In progress

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