Fibocom’s first global 5G module FM150-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.

FM150-AE-20 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 tablet PC, gateway, industrial monitoring, remote medical treatment, UAV, virtual reality and immersive experience (VR and AR).
5G Module
FM150-AE

Product Features
- Chipset: SDX55
- Support SA/NSA network architectures, support LTE/WCDMA
- 5G Sub6: n1, n3, n5/n8, n20, n28, n38, n41, n77, n78, n79
- LTE FDD: B1, B2, B3, B5, B7, B8, B20, B28
- LTE TDD: B34, B38, B39, B40, B41, B42, B43
- WCDMA: B1, B2, B5, B8
- MIMO:
  - 5G NR: DL 4*4 MIMO;n1,n41,n77,n78,n79
  - UL 2*2 MIMO:n41,n77,n78,n79
  - LTE: DL 4*4 MIMO:B1,B41
  - 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
- Support FGAT/DFOTA/VoLTE/Audio/eSiM

Data
Downlink:
- NR sub6: 256QAM 1CC/(100M) / SA Peak 2.1Gbps ; ENDC(2CC+NR100M) / Peak 2.5Gbps
- LTE 256QAM 3CC(10Layers)CAT12 / Peak 600Mbps

Uplink:
- NR sub6: 256QAM / Peak 900Mbps
- LTE: 64QAM / Peak 150Mbps

Interface
- GPIO
- I2S ×2
- UIM ×1
- USB3.1/3.0 ×1
- USB2.0 ×1
- PCIe3.0 ×1

Driver
- Linux 4.1 / Android 9.0 / Windows 10 or later

Approval
- CCC*/SRRC/RoHs*
- CMCC*/CUCC*/CTCC*

Region
Asia/Europe/Australia

Note: ** = in progress / Planning