

5G Module FM150-AE-20/21



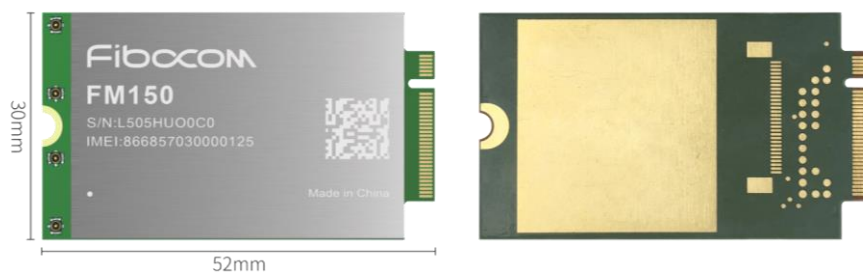
NR/LTE/WCDMA

LTE Cat20

FDD & TDD ENDC

USB 3.1/PCIe 3.0

Fibocom's AE 5G module FM150-AE-20/21 is a series of 5G communication modules for Asia and Europe Market, which support both 5G SA and NSA network architectures with faster transmission speed, better carrying capacity, and lower network latency. FM150-AE-20/21 can support up to LTE Cat20, and can support FDD & TDD ENDC. It has the standard interface of M.2, which makes it convenient for customers to update products quickly and respond to the commercial needs of quick landing. It applies to gateway, industrial monitoring, remote medical treatment, UAV, virtual reality and immersive experience (VR and AR).



5G Module FM150-AE-20/21



Product Features

- Chipset SDX55
- Support SA/NSA network architecture, support LTE/WCDMA
- 5G Sub-6: n1/3/5/7/8/20/28/38/40/41/77/78/79
- LTE FDD: B1/2/3/5/7/8/18/19/20/28/32
- LTE TDD: B34/38/39/40/41/42/43
- LAA: B46
- WCDMA: B1/5/6/8/19
- 5G NR: DL 4*4 MIMO:
n1/3/5/7/8/20/28/38/40/41/77/78/79
UL 2*2 MIMO: n41/77/78/79
- LTE : DL 4*4 MIMO:
B1/2/3/5/7/8/18/19/20/28/32/34/38/39/40/41/42/43
UL 1*1 MIMO

Data

- NR SA: 2.1Gbps(DL) / 900Mbps(UL)
- NR NSA: 4.1Gbps(DL) / 555Mbps(UL)
- LTE: 2Gbps(DL) / 211Mbps(UL)
- WCDMA: 42Mbps(DL) / 5.76Mbps(UL)

Driver

- Linux / Android / Windows

Region

Asia/Europe/Australia

Note: * = Planning / In progress

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Basic parameters

- Factor: M.2; 30 x 52 x 2.3mm
- Weight: TBD
- Operating Voltage: 3.135V~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)

Interface

- GPIO
- I2S x2
- UIM x2 (SIM2 reserve built-in eSIM)
- USB3.1/3.0/2.0 x1
- PCIe3.0 x1

Approval

- CE/GCF*/RCM*/RoHS*/HF*/REACH*
- DT*/VDF*