Fibocom FG170-EAU
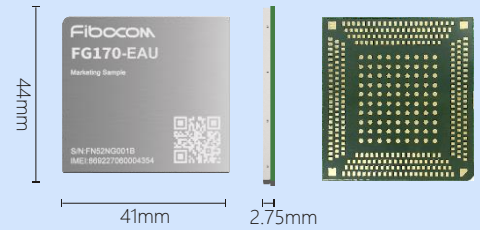
5G Sub-6 Module

44mm
41mm
2.75mm

FG170-EAU
Marketing Sample

Key Benefits:

• High-performance IoT module for the Sub-6 frequency band in 5G networks

• Leverages 3GPP Release16 technology to support NR CA

• Supports multi-constellation GNSS receiver for precise positioning

• Highly integrated design equipped with rich interfaces, achieving good flexibility.

• Provides a fast SA/NSA connection with MIMO capabilities

3GPP	Release 16
LGA	LGA Package
	Digital Audio / VoLTE / VoNR
	PCIE4.0/USB3.1 high-speed port
	Multi-constellation GNSS
AT	Fibocom enhances AT Commands
	Reference design and Application development support

The Fibocom FG170-EAU is a 5G wireless module designed specifically for the Europe and Australia , compliant with the 3GPP Release 16 standard. Powered by the Qualcomm Snapdragon SDX65 chipset, it delivers a superior 5G experience and unlocking greater potential for connected devices.

The module features a LGA packaging design with dimensions of 41x44x2.75mm, ensuring full compatibility with the 5G module FG160. In the 5G NR Sub-6GHz, it offers up to 300MHz bandwidth and supports downlink NR 4CA and 4x4 MIMO in the low-frequency band. Also, it delivers impressive maximum downlink rates of 4.2Gbps and uplink rates of 900Mbps within a 5G network..

The FG170-EAU module supports a variety of network protocols and integrates multiple interfaces, including USB 3.1/3.0/2.0, PCIe 4.0/3.0, I2S, and more. It can be applied in a wide range of IoT applications such as Customer Premises Equipment (CPE), HD live streaming, Industrial gateways, video surveillance, drones, VR/AR, and more.

5G	FG170-EAU
Region	Europe & Australia
Basic Features	
Chipset	SDX65
Package	LGA
Dimension (mm)	41 x 44 x 2.75mm
Weight	12g
5G Sub-6	n1/3/5/7/8/20/28/38/40/41/75/76/77/78/79
LTE FDD	B1/3/5/7/8/20/28/32
LTE TDD	B38/40/41/42/43
MIMO	5G NR: DL 4x4 MIMO: n1/3/5/7/20/28/38/40/41/75/76/77/78/79 UL 2x2 MIMO: UL 2*2MIMO: n41/77/78/79 LTE: DL 4x4 MIMO: B1/3/5/7/8/20/28/32/38/40/41/42/43
Antenna	8 + 1(GNSS)
Memory	4Gb LPDDR4x + 4Gb NAND Flash / 8Gb LPDDR4x + 8Gb NAND Flash
Power Supply	3.3V~4.4V, Typical 3.8V
Operating Temp.	-40°C - +85°C
AT Command	3GPP TS 27.007 and 27.005, Proprietary FIBOCOM AT Commands
Data Transmission	
NR SA	4.2Gbps(DL) / 900Mbps(UL)
NR NSA	4.16Gbps(DL) / 555Mbps(UL)
LTE	2.0Gbps(DL) / 211Mbps(UL)
Enhanced Features	
Voice	VoLTE*/VONR*
SMS	SMS over IP(IMS)
Audio	●
DFOTA	●
GNSS	GPS/GLONASS/ BeiDou /Galileo/QZSS
Software Features	
Driver	USB: Linux 2.6.38 and later/Windows7&10/Android7.x&8.x&9.x RIL: Android7.x&8.x&9.x NDIS: Windows7&10 ECM: Linux 2.6.38 and later Gobinet: Linux 2.6.38 and later
MBIM	Windows 10 and later/Linux 3.8 and later QMI WWAN: Linux 3.4 and later
QMI WWAN	Linux 3.4 and later
Network Protocol	TCP/UDP/FTP/HTTP/HTTPS/PING/LwM2M/SMS
Interfaces	
USB	USB3.1/3.0/2.0
PCIe	PCIe4.0x 1
UART	●
SPI	●
GPIO	●
I2C	●
UIM	●
I2S	●

* =planning /under development