

# Fibocom FG132 MiniPCle Series

5G Redcap Wireless Module Designed Specifically for IoT Applications

## Key Benefits

- Dual-mode support for 5G RedCap and 4G LTE
- Low latency and low power consumption for 5G
- Rich functionality interfaces greatly expand application scenarios

- Take FG132-GL as an example
- Product rendering is for reference only.
- Certification information is subject to the specifications below



Release 17



5G Redcap



MiniPCle Package



GNSS



Fibocom Enhanced  
AT Commands



Professional Reference  
Design, Evaluation Kits

Fibocom FG132 MiniPCle series is a high-performance 5G Redcap Sub-6 GHz wireless communication module. It supports 3GPP R17 RedCap technology, offering a maximum downlink speed of 223Mbps and uplink speed of 123Mbps under the 5G RedCap network, maximum downlink speed of 195Mbps and uplink speed of 75Mbps under the LTE network. It supports 5G SA networks, backward compatibility with 4G, and caters to 5G private networks and slicing requirements.

Fibocom FG132 MiniPCle series share a standard MiniPCle PIN layout, containing GL version and CN version currently.

Positioned for mid-rate IoT markets including industrial routers, Industrial PC, IP cameras, IoT gateways, fixed wireless access terminals, etc.



5G Redcap	FG132-GL-00-MiniPCIe	FG132-CN-00-MiniPCIe
Region	Global	China
Basic Features		
Package	MiniPCIe	
Dimension (mm)	(50.8±0.15) mm x (29.85±0.15) mm x (3.4±0.3) mm	
5G NR SA	N1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/38/40/41/48/66/70/71/77/78	N1/3/5/8/28/40/41/78/79
LTE Bands	B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/34/38/39/40/41/42/43/48/66/71	B1/3/5/8/34/38/39/40/41
LTE-HPUE	B38/40/41/42/43	B38/41
Power Supply	3.3V ~ 4.3V, Typical 3.8V (Optional: 3.0V ~ 3.6V, Typical 3.3V)	
Operating Temperature	-35° C ~ +75° C	
Extended Temperature	-40°C ~ +85°C	
ROM+RAM	2Gb+2Gb	
Antenna	Main+Div+GNSS	
Data Transmission		
5G SA Sub-6 (256QAM)	223Mbps (DL) / 123Mbps (UL)	
LTE (256QAM)	195Mbps (DL) / 75Mbps (UL)	
Functions		
Protocols	TCP/UDP/NTP/NITZ/HTTP/PING/HTTPS/SSL/FILE/MQTT/CoAP/LwM2M	
FOTA	DFOTA	
OS Drivers	Linux/Windows/Android	
VoNR/VoLTE	●	
GNSS	●Active/Passive Antenna	●
OpenCPU	NA	
ESIM	Optional	
Interfaces		
SIM	●	
USB	● USB 2.0	
UART	●	
PCM	●	
I2C	●	
Certification		
Regulation	FCC/CE/GCF*/PTCRB*/RoHS/HF/TSCA/RCM/REACH	CCC/SRRC/NAL/ROHS
Operator	T-Mobile*/Verizon*/AT&T*	NA

\* = Planning /Under development    ● = Support

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