

Fibocom FG132-GL-00-MiniPCle

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



Release 17

The FG132 series is a high-performance 5G Redcap Sub-6 GHz wireless communication module. This series 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 105Mbps under the LTE network. It supports 5G SA networks, backward compatibility with 4G, and caters to 5G private networks and slicing requirements.



5G Redcap



MiniPCIe Package

FG132-GL-00-MiniPCIe shares a standard MiniPCIe PIN layout and supports global frequency bands.



GNSS

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



Fibocom Enhanced AT Commands



Professional Reference Design, Evaluation Kits



5G Redcap	FG132-GL-00-MiniPCIe
Region	Global
Basic Features	
Package	MiniPCIe
Dimension (mm)	30*51*3.7
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
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
HPUE	LTE-HPUE: B38/40/41/42/43
Power Supply	3.3V ~ 4.3V, Typical 3.8V
Operating Temperature	-35°C ~ +75°C
Extended Temperature	-40°C ~ +85°C
Data Transmission	
5G SA Sub-6 (256QAM)	223Mbps(DL)/123Mbps(UL)
LTE (256QAM)	195Mbps(DL)/ 105Mbps(UL)
Software Features	
Protocols	TCP/UDP/NTP/NITZ/HTTP/PING/HTTPS/SSL/FILE/MQTT/CoAP/LwM2M
FOTA	DFOTA
OS Drivers	Linux/Windows/Android
Interfaces	
SIM	●
USB	● USB 2.0
UART	●
PCM	●
GPIO	●
Enhanced Features	
VoNR/VoLTE	Optional
GNSS	●
OpenWRT	Optional
Certification Approvals	
Regulation	ROHS*/HF*/FCC*/GCF*/PTCRB*
Operator	T-Mobile*/Verizon*/AT&T*

* = Planning /Under development ● = Support

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