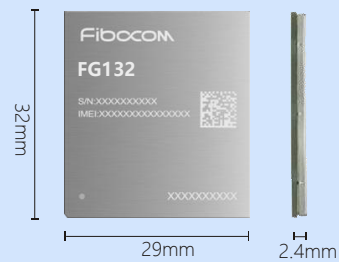


Fibocom FG132 Series

5G Redcap Wireless Module Designed Specifically for IoT Applications

Key Benefits

- Dual-mode support for 5G RedCap and 4G LTE
- 32*29*2.4mm compact size
- Low latency and low power consumption for 5G
- Rich functionality interfaces greatly expand application scenarios
- Offering IoT industry reference designs and customer development support



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 226Mbps and uplink speed of 121Mbps under the 5G RedCap network, maximum downlink speed of 195Mbps and uplink speed of 105Mbps under the LTE network. FG132 comes in various sub-models: GL for global operator frequency bands and NA for North American operators. It supports 5G SA networks, backward compatibility with 4G, and caters to 5G private networks and slicing requirements.



5G Redcap

Featuring compact LGA packaging at 32*29*2.4mm, FG132 shares a PIN layout compatible with Fibocom NL668 series series Cat 4 and MC116 series Cat 1 modules, facilitating seamless 5G/4G product compatibility design.



LGA Package



Compatible Design

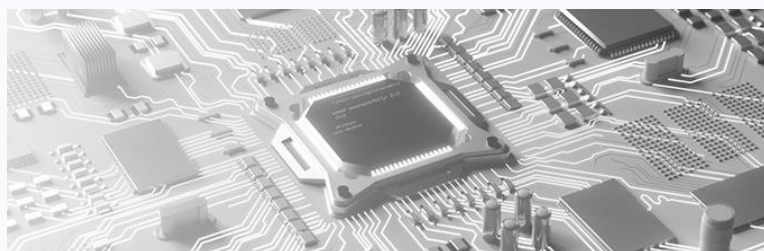
Positioned for mid-rate IoT markets including industrial gateways, security monitoring, fixed wireless access terminals, vehicle installations, and energy applications.



Fibocom Enhanced AT Commands



Professional Reference Design, Evaluation Kits



5G Redcap	FG132-GL-00	FG132-NA-00
Region	Global	North America
Basic Features		
Package	LGA	
Dimension (mm)	32*29*2.4	
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	N2/5/7/12/13/14/25/26/30/38/41/48/66/70/71/77/78
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	B2/4/5/7/12/13/14/17/25/26/30/38/41/42/43/48/66/71
HPUE	LTE-HPUE: B38/40/41/42/43	LTE-HPUE: B38/41/42/43
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)	226Mbps(DL)/121Mbps(UL)	
LTE (256QAM)	195Mbps(DL)/ 105Mbps(UL)	
Software Features		
FOTA	DFOTA	
OS Drivers	Linux/Windows/Android	
Interfaces		
SIM	x2	
USB	x1, USB 2.0	
UART	x3	
SGMII	●	
PCM	●	
I2S	●	
I2C	●	
SPI	●	
ADC	●	
GPIOs	●	
Enhanced Features		
VoNR/VoLTE	○	
GNSS	○	
OpenWRT	○	
Certification Approvals		
Regulation	CE*/GCF*/ROHS*/IC*/FCC*/GCF*/PTCRB*/RCM*	ROHS*/IC*/FCC*/PTCRB*
Operator	T-Mobile*/Verizon*/AT&T*/Telstra*	T-Mobile*/Verizon*/AT&T*

* = Planning/Under development ● = Support ○ = Optional

