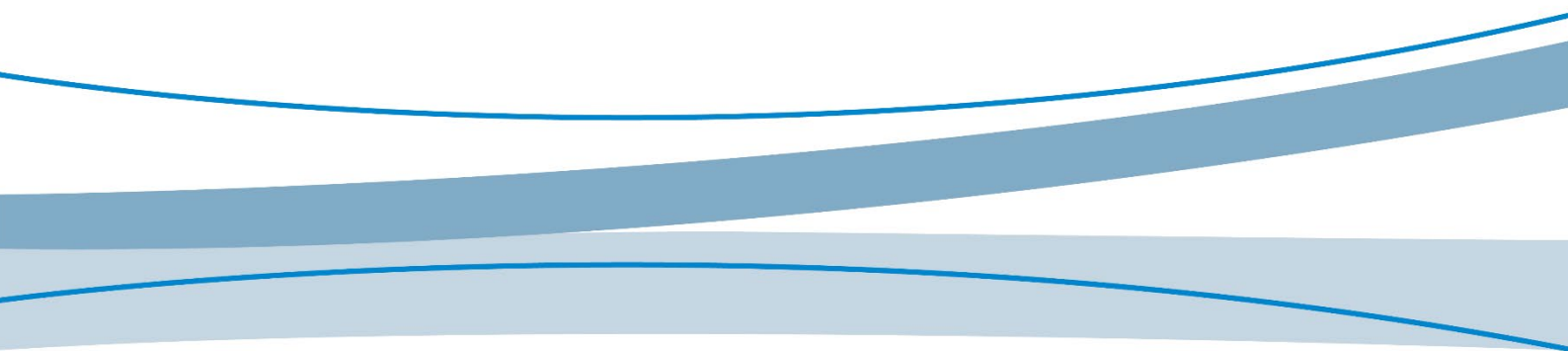




FG132

List of Peripherals

V1.0



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Applicability Model

No.	Applicable Model	Description
1	FG132-GL-00	3 ANT, 2G DDR2+2G NAND, LGA Package, LTE/5G NR, Global
2	FG132-CN-00	3 ANT, 2G DDR2+2G NAND, LGA Package, LTE/5G NR, China region
3	FG132-NA-00	3 ANT, 2G DDR2+2G NAND, LGA Package, LTE/5G NR, North America region
4	FG132-EAU-00	3 ANT, 2G DDR2+2G NAND, LGA Package, LTE/5G NR, Europe region
5	FG132-NA-30	3 ANT, 4G DDR2+2G NAND, LGA Package, LTE/5G NR, North America region

Change History

V1.0 (2024-10-26) First release.

1 List of Peripherals

Table 1. List of peripherals

No.	Type	Brand	Model	Interface	Verification State
1	Ethernet	Qualcomm	QEP8111	SGMII	Verified by Fibocom
2	Ethernet	Airoha	AN8855HN/A	SGMII	Verifying by Fibocom
3	WiFi Module	FN-Link	8274B-PR (use QCA6174 chip)	PCIe	Verified by Fibocom
4	WiFi Module	FN-Link	8266P-PR (use WCN6856 chip)	PCIe	Only recommended by the platform
5	WiFi IC	AIC	AIC8800DW	SDIO	Verifying by Fibocom
6	CODEC	Everest-Semi	ES8311	PCM and I2C	Verified by Fibocom
7	UART to USB	PROLIFIC	PL2303GC	UART	Verified by Fibocom
8	LCD	Hongbosheng	H.028.015A01	EBI	Verifying by Fibocom

2 Verification Result

2.1 Verification Description

- Verification environment and data link instructions: Insert ADP and CPB into the EVB respectively, and use DC power supply for power supply.
- Fibocom has only verified some functions and performance on development boards, dedicated small boards, or complete machines. On the customer's product side, there may be problems due to differences in structure or usage scenarios, and customers need to verify and test again to cover more projects. The testing and verification results of Fibocom are for reference only and cannot be used as the final basis.

2.2 Key Functions and Performance Verification Results

For the FG132 peripherals of this project, the key functions and performance items verified by Fibocom are as follows:

Peripheral 1, type: Ethernet PHY IC; brand: Qualcomm; model: QEP8111

Function/Performance Item	Device Specification/Objective	Fibocom Test Result/Data
Function item	Can access the internet normally	Pass
PHY DL	≥215 Mbps	220.15 Mbps
PHY UL	≥115 Mbps	122.98 Mbps
IP TPUT DL	≥185 Mbps	213 Mbps
IP TPUT UL	≥100 Mbps	120 Mbps

Peripheral 2, type: WIFI5 Module; brand: FN-Link; model: 8274B-PR (Qualcomm QCA6174 IC inside)

Function/Performance Item	Device Specification/Objective	Fibocom Test Result/Data
Function item	Can access the internet normally	Pass
2.4GHz HT20 11b DL	≥5.5 Mbps	6 Mbps
2.4GHz HT20 11b UL	≥5.5 Mbps	5.92 Mbps
2.4GHz HT20 11g DL	≥22 Mbps	29.8 Mbps
2.4GHz HT20 11g UL	≥22 Mbps	31.3 Mbps
2.4GHz HT20 11n DL	≥86 Mbps	93 Mbps
2.4GHz HT20 11n UL	≥86 Mbps	103 Mbps
5GHz HT20 11a DL	≥22 Mbps	48.7 Mbps
5GHz HT20 11a UL	≥22 Mbps	39.7 Mbps
5GHz HT20 11n DL	≥94 Mbps	106 Mbps

5GHz HT20 11n UL	≥94 Mbps	117 Mbps
5GHz HT20 11ac DL	≥112 Mbps	123 Mbps
5GHz HT20 11ac UL	≥112 Mbps	133 Mbps

The relevant driver programs and documents have been archived on the server