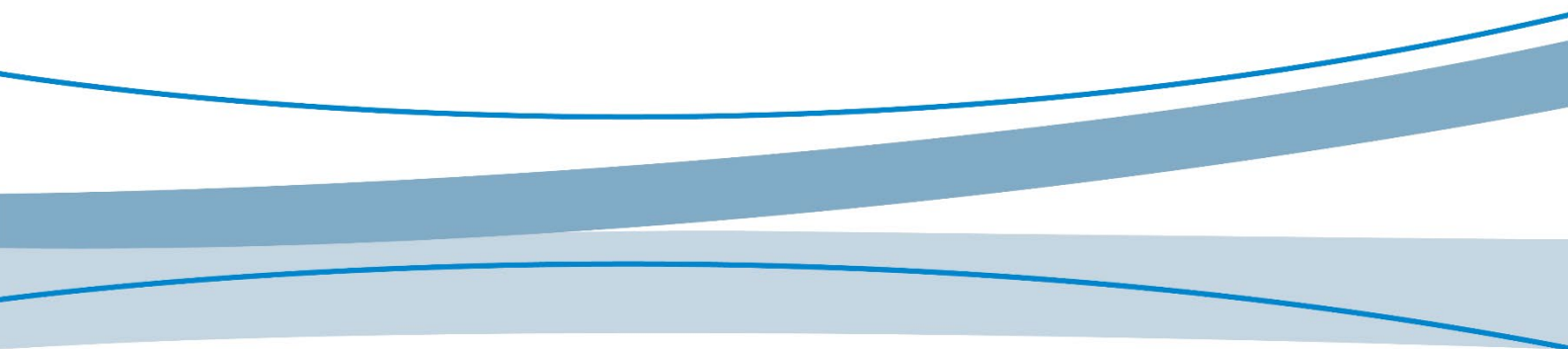




# FG132-GL-00

## Reliability Test Report

V1.0



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## Contact Information

Website: <https://www.fibocom.com>

Address: 10/F-14/F, Block A, Building 6, Shenzhen International Innovation Valley, Dashi First Road, Xili Community, Xili Subdistrict, Nanshan District, Shenzhen

Tel: 0755-26733555

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# Change History

V1.0 (2024-03-27)      Initial version

# 1 Introduction

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This report is to document the Industrial reliability testing results for FG132-GL-00 product.

## 2 Test Equipment

Table 1. Test Equipment

Index	Manufacturer	Description	Model
1	R&S	Wideband radio communication tester	CMW100
2	Agilent	Power supply	66311B
3	OTS	Temperature humidity test chamber	XB-OTS-80B-B
4	TMJ	Shock chamber	9790B415
5	THERMOTRON	Rapid temperature change test Chamber	47830
6	Labtone	Mechanical vibrator	EV206H0606
7	KOMEG	Salt spray test chamber	KM-F-90C
8	OTS	Dorp tester	XB-OTS-220A-A
9	OTS	Temperature humidity test chamber	XB-OTS-1000H-C

# 3 Test Details

Internal Model	FG132-GL-00
Material Description	5G module
Software Version	19003.1000.00.02.01.12_89900.00.0000
Batch	S000009230
Date Test Coverage	Jan 30.2024~Mar 25.2024
Reference Document	Fibocom-Industrial reliability test specification-A1

## 4 Test Summary

Test Name	Test Description	Standard	Test conditions	Samples	Status
HTOL	High Temperature Operating Life Test	IEC 60068-2-2	85°C,1000H Keep working mode.	10	Passed
HT/HH	High Temp/ High Humidity Test	IEC 60068-2-3 JESD22-A101D	85°C,85%RH,1000H Power on, Max Operating Voltage	5	Passed
CT	Corner Test	IEC 60068-2-30	HT/HH/HV->HT/LH/HV->LT/HV->HT/HH/LV->HT/LH/LV->LT/LV,24 hours per state, Keep working mode.	5	Passed
TST	Thermal Shock Test	IEC 60068-2-14	-45 / 90°C 25 minutes dwell 200 cycles	5	Passed
RVT	Random Vibration Test	IEC 60068-2-64	200-2000Hz, PSD = 0.04g <sup>2</sup> /Hz, 3 axes (X, Y and Z), 1H per axis Keep working mode	3	Passed
DT	Dorp Test	IEC 60068-2-32	1m,2 drop per direction (±X, ±Y, ±Z), 6 directions	3	Passed
BT	Bump Test	IEC 60068-2-32	Pulse shape: Half-Sine wave  Peak acceleration: Non-operation 18G Duration: 6 ± 2ms  Test direction: Normal position  Number of shocks: 1000 Times	2	Passed
LTS	Low Temp.Start	IEC 60068-2-1	-40°C, 30 minutes Off/ 5 minutes Idle;3 days.	3	Passed



COND	Condensation Test	IEC 60068-2-30	3 days (3 cycles): • First and second cycle with cold cycle • Third cycle without cold cycle	3	Passed
TCT	Temp.Cycle Test	IEC 60068-2-14	+85°C/-40°C 10°C/min 10 minutes dwell 240Cycles Keep working mode.	3	Passed
SVT	Sine Vibration Test	IEC 60068-2-6	5-500Hz,3G peck to peck, 0.5 Octave/min,linear; 120 minutes for each X/Y/Z axis,	3	Passed
SST	Salt Spray Test	IEC 60068-2-11	Neutral Salt Spray Test, 48H.	3	Passed

## 5 Conclusions

After having undergone the aforementioned stress tests, all FG132-GL-00 units: passed visual inspection and passed performance analysis tests.

In conclusion, Fibocom Wireless Inc. hereby declares that the FG132-GL-00 meets the quality and reliability standards defined for a product in the Industry category.