

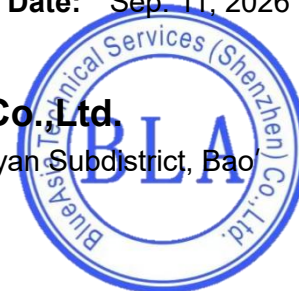
FCC RF Exposure

Applicant : Jiangsu Fulian Communication Technology Co.,Ltd
Address : Yongan Community, the south of Lanling Road,
Danyang Development District, Jiangsu Province,
China.
Product Name : FLC8720FRA-B-01
Brand Mark : Fulian
Model : FLC8720FRA-B-01
FCC ID : 2AXS5-FLC8720FRAB01
Report Number : BLA-EMC-202607-A121-06
Date of Receipt : July 30, 2026
Date of Test : July 30, 2026 to Sep. 11, 2026
Test Standard : KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: *Hugh* Review by: *Xavier* Approved by: *Blue Zheng*
Issued Date: Sep. 11, 2026

BlueAsia Technical Services(Shenzhen) Co.,Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China



The test report is effective only with both signature and specialized stamp and The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full. The results described in this report do not represent the quality or characteristics of the sampled batch, nor do they represent any similar or identical products that are not explicitly stated.

Table of Contents

1	General information	4
1.1	General information	4
1.2	General description of EUT	4
2	RF Exposure Compliance Requirement	7
2.1	Standard Requirement	7
2.2	Limits	7
2.3	Result	8

Revise Record

Version No.	Date	Description
01	Sep. 11, 2026	Original

1 General information

1.1 General information

Applicant	Jiangsu Fulian Communication Technology Co.,Ltd
Address	Yongan Community, the south of Lanling Road, Danyang Development District, Jiangsu Province, China.
Manufacturer	Jiangsu Fulian Communication Technology Co.,Ltd
Address	Yongan Community, the south of Lanling Road, Danyang Development District, Jiangsu Province, China.
Factory	Jiangsu Fulian Communication Technology Co.,Ltd
Address	Yongan Community, the south of Lanling Road, Danyang Development District, Jiangsu Province, China.

1.2 General description of EUT

Product name	FLC8720FRA-B-01
Model no.	FLC8720FRA-B-01
Series model	N/A

BLE:

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Ant1: PIFA antenna (AWAN) Ant2: PIFA antenna (SPEEDWIRE) Ant3: FPC antenna (Y4RYM0MA0BA) (EVB) Ant4: FPC antenna (FL-DC-3-75) Ant5: FPC antenna (FL-DC-2-75)
Antenna Gain:	Ant1: 1.19 dBi (AWAN) Ant2: 1.98 dBi (SPEEDWIRE) Ant3: 1.60 dBi (Y4RYM0MA0BA) Ant4: 1.03 dBi (FL-DC-3-75) Ant5: 1.10 dBi (FL-DC-2-75) (Provided by customer)

2.4GWiFi:

Operation Frequency:	2412MHz-2462MHz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40):7
Antenna Type:	Ant1: PIFA antenna (AWAN) Ant2: PIFA antenna (SPEEDWIRE) Ant3: FPC antenna (Y4RYM0MA0BA) (EVB) Ant4: FPC antenna (FL-DC-3-75) Ant5: FPC antenna (FL-DC-2-75)
Antenna Gain:	Ant1: 1.19 dBi (AWAN) Ant2: 1.98 dBi (SPEEDWIRE) Ant3: 1.60 dBi (Y4RYM0MA0BA) Ant4: 1.03 dBi (FL-DC-3-75) Ant5: 1.10 dBi (FL-DC-2-75) (Provided by customer)

5G WIFI:

Operation Frequency	Band 1: 5180MHz-5240MHz; Band 2: 5260MHz~5320MHz; Band 3: 5500MHz~5700MHz; Band 4: 5745MHz-5825MHz.
Channel numbers	Band 1: 802.11a/802.11n(HT20): 4, 802.11n(HT40):2
	Band 2: 802.11a/802.11n(HT20): 4, 802.11n(HT40):2
	Band 3: 802.11a/802.11n(HT20): 11, 802.11n(HT40):5
	Band 4: 802.11a/802.11(HT20): 5, 802.11n(HT40): 2,
Modulation Type	BPSK, QPSK, 16-QAM, 64-QAM, 256QAM
Channel Spacing	802.11a/n: 20MHz, 802.11n: 40MHz
Data speed	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps, Up to 433 Mbps
DFS type	Slave
Antenna Type:	Ant1: PIFA antenna (AWAN) Ant2: PIFA antenna (SPEEDWIRE) Ant3: FPC antenna (Y4RYM0MA0BA) (EVB) Ant4: FPC antenna (FL-DC-3-75) Ant5: FPC antenna (FL-DC-2-75)
Antenna Gain:	Ant1(AWAN): Band 1: 1.86dBi Band 2: 2.31dBi Band 3: 3.00dBi Band 4: 3.04dBi Ant2(SPEEDWIRE): Band 1: 2.31dBi Band 2: 2.63dBi Band 3: 2.51dBi Band 4: 2.39dBi Ant3(Y4RYM0MA0BA): Band 1: 2.20dBi Band 2: 2.20dBi Band 3: 3.20dBi Band 4: 2.20dBi Ant4(FL-DC-3-75): Band 1: 2.55dBi Band 2: 2.49dBi Band 3: 3.13dBi Band 4: 3.12dBi Ant5(FL-DC-2-75): Band 1: 3.07dBi Band 2: 3.18dBi Band 3: 3.14dBi Band 4: 3.05dBi (Provided by customer)

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

2.3 Result

BLE

Directional antennaGain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW/cm ²)	Test Result
1.98dBi(1.578)	1.359	1.367 (2402 BLE 2M)	3060	Compiles

$$\text{ERP}=1.359+1.98-2.15=1.315 \text{ mW}$$

2.4G WIFI

Directional antennaGain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW/cm ²)	Test Result
1.98dBi(1.578)	16.464	44.300 (802.11g 2437)	3060	Compiles

$$\text{ERP}=16.464+1.98-2.15=42.599 \text{ mW}$$

5.1G WIFI

Directional antennaGain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW/cm ²)	Test Result
3.07dBi(2.028)	12.836	19.213 (802.11n20 5240)	3060	Compiles

$$\text{ERP}=12.836+3.07-2.15=23.747 \text{ mW}$$

5.2G WIFI

Directional antennaGain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW/cm ²)	Test Result
3.18dBi(2.080)	12.653	18.420 (802.11a 5280)	3060	Compiles

$$\text{ERP}=12.653+3.18-2.15=23.351 \text{ mW}$$

5.3G WIFI

Directional antennaGain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW/cm ²)	Test Result
3.20dBi(2.089)	12.784	18.985 (802.11a 5500)	3060	Compiles

ERP=12.784+3.20-2.15=24.177 mW

5.8G WIFI

Directional antennaGain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (mW/cm ²)	Test Result
3.12dBi(2.051)	12.613	18.252 (802.11n20 5745)	3060	Compiles

ERP=12.613+3.12-2.15=22.819 mW

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.