



Report No.: PTC24022712801E-FC05

FCC TEST REPORT

FCC ID: 2AASZ-MPC12P0YN

Product	:	MINI PC
Model Name	:	MPC12P0YN,MPC12P0YNA,MPC12P0YNB,MPC12P0YNC,MPC12P0YNI,MPC12P0YNJ,MPC12P0YNR
Brand	:	iProda, LAEFLAEK, Yattberak
Report No.	:	PTC24022712801E-FC05
Prepared for		
Shenzhen IProda Technology Co., Ltd		
Room 1001B, 10th Floor, Office Building, Plaza Xindizhongyang, District Guangming, Shenzhen, China		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen IProda Technology Co., Ltd

Address : Room 1001B, 10th Floor, Office Building, Plaza Xindizhongyang,
District Guangming, Shenzhen, China

Manufacture's name : Dongguan IProda Technology Co., Ltd.

Address : 2-6 FLOOR, C BUILDING, NO.99, YADI NAN 1 ROAD, SHANHE
VILLAGE, QIAOTOU TOWN, DONGGUAN CITY, GUANGDONG
PROVINCE, CHINA

Product name : MINI PC

Model name : MPC12P0YN,MPC12P0YNA,MPC12P0YNB,MPC12P0YNC,MPC
12P0YNI,MPC12P0YNJ,MPC12P0YNR

Test procedure : FCC CFR47 Part 1.1307(b)(1)

Test Date : Mar. 14, 2024 to Jun. 06, 2024

Date of Issue : Jun. 06, 2024

Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	MINI PC
Model Name	:	MPC12P0YN
Additional model	:	MPC12P0YNA,MPC12P0YNB,MPC12P0YNC,MPC12P0YNI,MPC12P0YNJ,MPC12P0YNR
Specification	:	Bluetooth BDR+EDR Bluetooth BLE 802.11b/g/n HT20/HT40 802.11a/n HT20/HT40/ac20/ac40/ax40/ac80/ax80
Operation Frequency	:	2400-2480MHz for BT 2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40) 5G Wifi:5180-5240 MHz 5.8G Wifi:5745MHz~5825MHz
Number of Channel	:	79 channels for BDR+EDR 40 channels For DTS 11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40) 4 channels for 802.11a/n20/ac20 5180-5240 MHz 5 channels for 802.11a/n20/ac20 5745MHz~5825MHz 2 channels for 802.11n40/ac40/ax40 5190-5230 MHz 2 channels for 802.11n40/ac40/ax40 5755MHz~5795MHz 1 channels for 802.11 ac80/ax80
Type of Modulation	:	Bluetooth BDR+EDR Bluetooth BLE 802.11b/g/n HT20/HT40 802.11a/n HT20/HT40/ac20/ac40/ax40/ac80/ax80
Antenna installation	:	FPC Antenna
Antenna Gain	:	BT: AUX(ANT1):2.02 dBi 2.4G Wi-Fi: Main(ANT2):2.16 dBi AUX(ANT1):2.02 dBi 5G: Main Antenna(ANT2):2.77 dBi Aux Antenna(ANT1):2.63 dBi
Power supply	:	Adapter: AS3603A-1203000US Input: AC 100-240V~50/60Hz 1.0A Output: DC 12V 3A Li-ion Battery : CR2032 Rated Voltage: 3V



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Hardware Version	:	IP3_DNB20_MB_V11_20221111A
Software Version	:	Windows 11 Home



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta \phi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Mode	Frequency (MHz)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
DH5(Ant2)	2480	1.59	11.76	11.76 ± 1	18.879913	0.005980	1	Pass
BLE_2M (Ant2)	2440	1.59	7.59	7.59 ± 1	7.227698	0.002289	1	Pass
11B(Ant2)	2412	1.63	20.68	20.68 ± 1	147.231250	0.000001	1	Pass
11A(Ant2)	5240	1.89	19.37	19.37 ± 1	108.893009	0.040995	1	Pass

*****THE END REPORT*****