FCC TEST REPORT
FCC ID: 2ADACMINIXNEOU1

Product	:	Media hub for Android
Model Name	:	MINIX NEO U1
Brand	:	MINIX
Report No.	:	PT151123016E-FC03

Prepared for

MINIX TECHNOLOGY LIMITED

Unit 01, 15/F, Chevalier Commercial Center, No.8 Wang Hoi Road,

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Prepared by

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TEST RESULT CERTIFICATION

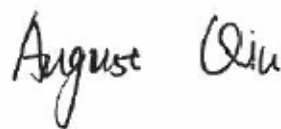|		
Applicant's name	:	MINIX TECHNOLOGY LIMITED
Address	:	Unit 01, 15/F, Chevalier Commercial Center, No.8 Wang Hoi Road, Kowloon Bay, Kowloon, Hong Kong
Manufacture's name	:	XIANGUAN ELECTRONICS LIMITED
Address	:	13F.,Building B,Haisong Edifice,Tairan 9th Rd.,Futian District,Shenzhen, P:518040
Product name	:	Media hub for Android
Model name	:	MINIX NEO U1
Standards	:	FCC CFR47 Part 1.1307(b)(1)
Test procedure	:	KDB 447498 D01 General RF Exposure Guidance v06
Test Date	:	Nov. 25, 2015 ~ Dec.17, 2015
Date of Issue	:	Dec. 21, 2015
Test Result	:	Pass

This device described above has been tested by PTS, 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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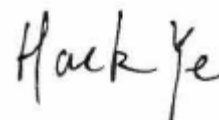
Testing Engineer

August Qiu

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Hack Ye

Authorized Signatory

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

Remark:

N/A: Not Applicable

3 General Information

3.1 General Description of E.U.T.

Product Name	:	Media hub for Android
Model Name	:	MINIX NEO U1
Model Description	:	N/A
Bluetooth Version	:	V4.1
Operating frequency	:	For BT3.0: 2402-2480MHz, 79 channels For BLE: 2402-2480MHz, 40 channels For WIFI 2412-2472MHz, 13 channels
Antenna installation:	:	ANT1: Integrated Antenna ANT2: External antenna with RP-SMA connector
Antenna Gain:	:	ANT1: 0dBi, ANT2:0dBi
Type of Modulation	:	For BT3.0: GFSK, Pi/4DQPSK, 8DPSK For BLE: GFSK For WIFI: IEEE 802.11b CCK/QPSK/BPSK IEEE 802.11g BPSK/QPSK/16QAM/64QAM IEEE 802.11n-HT20 BPSK/QPSK/16QAM/64QAM IEEE 802.11n-HT40 BPSK/QPSK/16QAM/64QAM
Power supply	:	DC 5V 3A Power by AC adapter
Adapter	:	Input:100-240V ~50/60Hz 0.5A max Output: DC 5V 3.0A

4 RF Exposure

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

Evaluation Method   :   FCC Part 2.1091

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

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power Density: Pd (W/m}^2\text{)} = \frac{E^2}{377}$$

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

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

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

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
BT3.0	1	2.16	1.64	0.0003	1	Pass
BLE	1	-4.51	0.35	0.0001	1	Pass
WIFI	1	9.44	8.79	0.0017	1	Pass

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