

FCC Test Report

Equipment : Wireless-AC1300 Dual Band Gigabit Router
Brand Name : ASUS
Model No. : RT-AC58U, RT-AC58MU, RT-ACRH00, RT-AC1300G+, RT-AC1300GPLUS, RT-AC1300G PLUS, RT-AC1300UHP, RT-AC1300HP, RT-AC58UHP, RT-AC58HP, RT-AC53HP, RT-ACRH13, RT-AC1300GPLUS_B1, RT-AC1200G+ B1
FCC ID : MSQ-RTACRH00
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
Applicant / Manufacturer : ASUSTeK Computer Inc
4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan
Function : Outdoor; Indoor; Fixed P2P
 Client

This report was evaluated for permissive change. The product sample received on Dec. 27, 2017 and completely tested on Jan. 09, 2018. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.


Phoenix Chen / Assistant Manager





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Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector
1	1	-	-	Dipole Antenna	I-PEX
2	2	-	-	Dipole Antenna	I-PEX
3	3	M.gear	C0959-510381-A	Dipole Antenna	I-PEX
4	4	M.gear	C0959-510382-A	Dipole Antenna	I-PEX
5	5	-	-	Dipole Antenna	I-PEX
6	6	-	-	Dipole Antenna	I-PEX
7	7	M.gear	C0959-510383-A	Dipole Antenna	I-PEX
8	8	M.gear	C0959-510384-A	Dipole Antenna	I-PEX

Ant.	Gain (dBi)	
	2.4G	5G
1	5.27	-
2	4.85	-
3	5.11	-
4	3.1	-
5	-	5.41
6	-	5.12
7	-	5.29
8	-	5.0

Note 1: The EUT has eight antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/gn mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 an/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.



1.1.3 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR5D1107-08AC

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Change filing type	N/A