

IEEE 802.11 b/g/n WIFI DONGLE Product Specifications

RT5370

Model: TOP-GS03

Version: 1.6 Dec

2013/08/21

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1. Introduction

TOP-GS03 is a WLAN module supporting IEEE 802.11 b/g/n standards with 4-pin connector supporting USB 2.0 interface. This is a low cost compact WLAN module designed in the product with embedded system for the wireless connectivity.

1.1 Scope:

TOP-GS03 WLAN Module is designed to operate in 2.4GHz ISM frequency band, it applies a highly integrated MAC/BBP and RF single chip RT5370 with 150Mbps PHY rate supporting. It fully complies with IEEE802.11n draft 3.0 and IEEE802.11b/g feature.

1.2 Features

- 802.11b: 1, 2, 5.5, 11Mbps;
- 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
- 802.11n: (20MHz) MCS0-7, Support up to 72Mbps
 (40MHz) MCS0-7, Support up to 150Mbps
- OFDM, Peak rate 150Mbps, Peak throughput 90Mbps.
- Security support for 64/128 WEP, WPA, WPA2, TKIP, AES
- Operates in 2.4GHz frequency bands. Power Management
- Antenna configuration: Built-in On Board

2. Product Information

2.1 Specification Overview

Standards	IEEE802.11b/g & 802.11n (1T1R mode)	
Operating	USA (FCC): 2.412GHz ~ 2.462GHz (channel 1 – 11) ISM band	
Frequency	Europe (CE): 2.412GHz ~ 2.472GHz (channel 1 – 13) ISM band	
Protocols	802.11b: CCK, QPSK, BPSK, 802.11g/n: OFDM	
Antenna	External Antenna via an I-PEX receptacle/ Built-in On Board	
Security	WPA/WP2, 64/128/152-bit WEP, WPS	
Transmit Output	11b: 19±1.0dBm @ 11Mbps; 11g: 16±1dBm @ 54Mbps	
Power (Typical)	802.11n: (HT20), 16+/-1dBm, 802.11n: (HT40), 16+/-1dBm,	
Receive Sensitivity	11b:-86dBm @ 11Mbps;11g:-72dBm @ 54Mpbs.	

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	802.11n: (HT20), -68dBm@MSC7, (HT40),-64dBm@MSC7
Operating Voltage	5.0VDC ± 5%
Operating Current	<110mA at 5.0V DC input.
Bus Interface	USB 2.0/USB1.1
USB Interface	USB2.0
Antenna Impedance	Built-in Aerial

Figure 2: System Block Diagram of TOP-S03 5V WLAN Module

2.3 Software and system Information

Operation System	CPU Supplier	Driver
Linux 2.4/2.6	ARM, MIPSII	Available
Windows 2000/XP/Vista	X86 Platform	Available
Windows CE 5.0/6.0	ARM, MIPSII	Available
Mac OS X 10.3/10.4/10.5/10.6	N/A	Available

2.4 Mechanical Information

2.4.1 OUTLINE and USB Connection Information

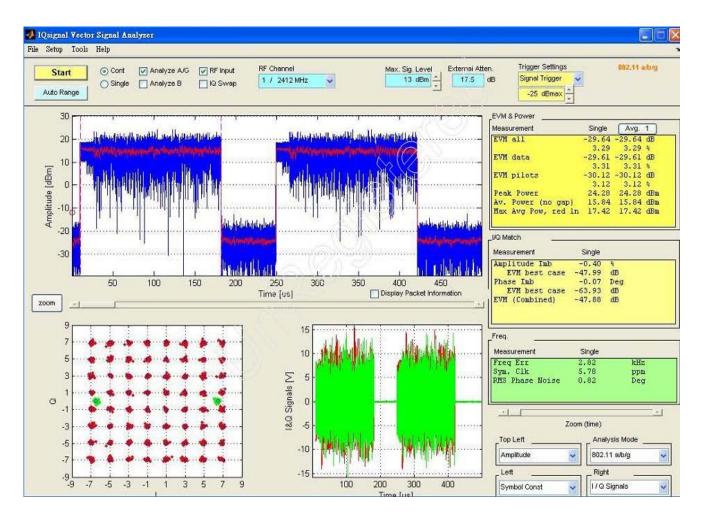


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1. TEST PARAMETER



2 A Agency A **Approval**

Agency	Approval
FCC Part15	V
CE	V
RoHS	V

4.1 Temperature

4.1.1 Operating Temperature

Continuous reliable operation in ambient temperature: 0°C to +50°C.

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4.1.2 Storage Temperature

The product is not damaged or degraded when keeping in -20°C to +85°C.

4.2 Humidity

4.2.1 Operating Humidity Conditions

The product is capable of continuous reliable operation when subjected to relative humidity in the range of 20% to 80% (non-condensing).

4.2.2 Non-Operating Humidity Conditions (including warehouse)

The product is not damaged or degraded when kept in the relative humidity range from 20% to 80%.

5 Disclaimer

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TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification

Issued Under the Authority of the Federal Communications Commission

By:

Siemic Inc. 2206 Ringwood Ave. San Jose, CA 95131 Date of Grant: 06/03/2011

Application Dated: 06/03/2011

TOPLINKST TECHNOLOGY COMPANY LIMITED
UNIT 04,7F,BRIGHT WAY TOWER, NO,33 MONG KOK
ROAD
KOWLOON,
Hong Kong

Attention: YanHua Zhang, Manager

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: ZLJRT5370S03

Name of Grantee: TOPLINKST TECHNOLOGY COMPANY

LIMITED

Equipment Class: Digital Transmission System

Notes: wireless USB adapter

Frequency Output Frequency Emission

Grant Notes FCC Rule Parts Range (MHZ) Watts Tolerance Designator

15C 2412.0 - 2462.0 0.254

15C 2422.0 - 2452.0 0.127

Power listed is the maximum peak conducted output power.

SAR compliance has been established with a laptop computer as tested in this filing. This USB dongle can be used with laptop computers of substantially similar physical dimensions, construction, and electrical and RF characteristics. Maximum measured SAR value: 0.264 W/kg (Body).