

## WIFI Module

### IEEE 802.11b/g/n/a 2T/2R

Model Number: WT39M2011T

#### Product Description

GSD WT39M2011T is a high-gain and low power consumption wifi module . It fully complies with IEEE 802.11n and IEEE 802.11b/g/a feature rich wireless connectivity at high standards, delivers reliable, cost-effective, throughput from an extended distance. When 5V, USB bus and GND were connected, This module is working. The Bluetooth part supports latest 4.0+HS operation.

#### Product Features

- ◆ Complies with IEEE 802.11g; 802.11b; 802.11n ; 802.11a standard for 2.4GHz and 5GHz Wireless LAN.
- ◆ TWO Transmit and TWO Receive path(2T2R)
- ◆ Supports Ad-Hoc/Infrastructure modes
- ◆ Works with all existing network infrastructure.
- ◆ Capable of up to 128-Bit WEP Encryption.
- ◆ Freedom to roam while staying connected.
- ◆ UP to 300 Mbps High-Speed Transfer Rate in 802.11n mode of operation.
- ◆ Operating Systems: Windows XP 32/64, 2000, Windows 7, Vista 32/64, Linux, Macintosh
- ◆ Low power consumption.
- ◆ Easy to install and configure.
- ◆ Bluetooth v4.1 Low Energy(LE);
- ◆ Bluetooth specification v2.1+EDR;

#### Product Specification

Model	WT39M2011T
Product Name	WIFI+BT Module
Standard	802.11b/g/n /a
Interface	12pin Interface
Data Transfer Rate	1, 2, 5, 5.5, 6, 11, 12, 18, 22, 24, 30, 36, 48, 54, 60, 90, 120 and maximum of 300Mbps
Modulation Method	QPSK , BPSK , CCK(802.11b) QPSK , BPSK , 16QAM , 64QAM with OFDM (802.11g) BPSK , QPSK , 16QAM , 64QAM with OFDM(802.11n) QPSK , BPSK , 16QAM , 64QAM with OFDM (802.11a)
Frequency Band	2.4GHz: CH 1~CH11 for FCC 5GHz: 5150~5250MHz, 5725~5850MHz
Transmit Power	< 18dBm
Operation Mode	Infrastructure
Operation Range	Up to 300 meters in open space
OS Support	Windows XP 32/64, 2000, Windows 7, Vista 32/64, Linux, Macintosh
Security	WEP, TKIP, AES, WPA, WPA2
Operating Voltage	5V±10%
Operating Temperature	-10 ~ 70°C ambient temperature
Storage Temperature	-55 ~ 125°C ambient temperature
Humidity	5 to 90 % maximum (non-condensing)

## **FCC Important Notes:**

**(1)**

### **FCC Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

The devices must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. Modular could be only used in mobile or fix device, and could not be used in any portable device.

### **Caution!**

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

### **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

**(2)**

### **Co-location Warning:**

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

**(3)**

### **OEM integration instructions:**

This device is intended only for OEM integrators under the following conditions:

The transmitter module may not be co-located with any other transmitter or antenna. The module shall be only used with the integral antenna(s) that has been originally tested and certified with this module.

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

**(4)**

### **Validity of using the module certification:**

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

**(5)**

### **End product labeling:**

The final end product must be labeled in a visible area with the following:

“Contains Transmitter Module FCC ID: 2AC23- WT39M2011T”.

**(6)**

### **Information that must be placed in the end user manual:**

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the

# PRODUCTS USERMANUAL

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user's authority to operate this equipment.

IEEE 802.11b or 802.11g operation of this product in the USA is firmware-limited to channels 1 through 11.

The device for the band 5150-5250 MHz is only for indoor usage to reduce the potential for harmful interference to co-channel mobile satellite systems.

## IC Statement

- English: "

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

The final end product must be labeled in a visible area with the following:

"Contains Transmitter Module IC: 12290A- WT39M2011T".

- French:"

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."