



Module for TWR-WIFI-G1011MI

TOWER SYSTEM



TWR-WIFI-G1011MI

802.11 Wi-Fi® module



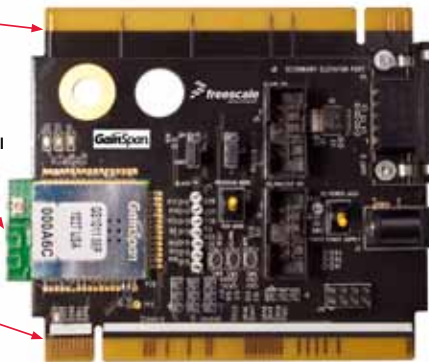


Get to Know the TWR-WIFI-G1011MI

Secondary Connector

GainSpan GS1011MI
Wi-Fi® Module

Primary Connector



Serial Port
Access

Optional External
Power Supply



TWR-WIFI-G1011MI Freescale Tower System

The TWR-WIFI-G1011MI module is part of the Freescale Tower System, a modular development platform that enables rapid prototyping and tool re-use through reconfigurable hardware. Take your design to the next level and begin constructing your Tower System today.



TWR-WIFI-G1011MI Features

- Features GS1011MIP Wi-Fi module from GainSpan
- Operates with standard 802.11 b/g/n access points at speeds up to 11 Mbps
 - Infrastructure or Ad hoc mode
- UART and SPI interfaces
 - Data rates of up to 3 Mbps in SPI Slave Mode
 - Data rates of up to 921.6 kbps on UART
- Full Wi-Fi stack including WPS and optional networking stack and services
- 802.11i Security
 - WEP, WPA, WPA2-PSK, Enterprise
- Certified RF Module
 - FCC, IC, Wi-Fi, RoHS
 - Fully compliant with EU and meets the R&TTE Directive for Radio Spectrum Japan Radio Type Approval (i.e. TELEC) and is pre-scan compliant

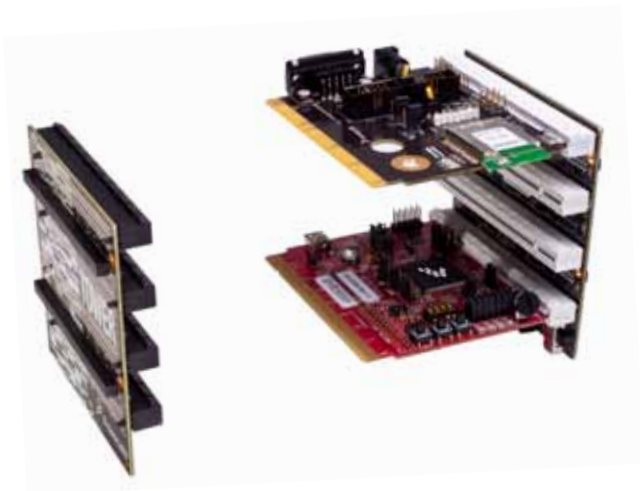
Step-by-Step Installation Instructions

STEP
1

Download and Install
CodeWarrior for
Microcontrollers from
freescale.com/CodeWarrior

STEP
2

Download and install
Freescale MQX™ from
freescale.com/MQX



STEP
3

Download and install TWR-WIFI-G1011MI enablement patch for MQX at freescale.com/TowerWiFi

STEP
4

Follow the demo instructions included in the TWR-WIFI-G1011MI Lab Tutorial document at freescale.com/TowerWiFi

Install in the order listed. The Evaluation version of CodeWarrior offers a 30-day evaluation license. Professional Edition is required to run the MQX lab tutorials for unrestricted code size and task aware debugging after the 30-day evaluation has expired.



I WK-WIFI-G1011MI Jumper Options

The following is a list of all jumper options. The ***default*** installed jumper settings are shown in **bold**.

Jumper	Option	Setting	Description
SW1	Power Supply Input	TOWER	Power from Tower System 3.3V
		DC POWER JACK	Power from DC power jack (J2)
SW2	Mode Selection	RUN	GS1011MI in standard "run" mode
		PROGRAM	GS1011MI in program mode
J3	UART Routing Selection	1-2	Connect GS1011MI UART0 to on-board RS232/DB9
		2-3	Connect GS1011MI UART0 to Tower System
J6	Serial Interface Selection	1-2	Enable SPI interface from Tower to GS1011MI
		2-3	Enable UART interface from Tower to GS1011MI
J7	Master SPI Port CS Selection	1-2	Connect Tower SPI1_CS1 to master SPI CS on GS1011MI
		3-4	Connect Tower SPI1_CS0 to master SPI CS on GS1011MI
J9	Slave SPI Port CS Selection	1-2	Connect Tower SPI0_CS0 to slave SPI CS on GS1011MI
		3-4	Connect Tower SPI0_CS1 to slave SPI CS on GS1011MI
J10	Interrupt Selection	1-2	Connect GS1011MI interrupt to Tower IRQ_G (B56)
		3-4	Connect GS1011MI interrupt to Tower IRQ_E (B58)
		5-6	Connect GS1011MI interrupt to Tower IRQ_C (B60)
		7-8	Connect GS1011MI interrupt to Tower IRQ_A (B62)
J11	GS1011MI Reset Selection	1-2	Connect GS1011MI reset to Tower GPIO9 (A9)
		2-3	No connection
J12	GS1011MI Reset Selection	1-2	Connect GS1011MI reset to Tower RSTOUT (A63)
		2-3	Connect GS1011MI reset to Tower GPIO1 (B21)



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Go to **freescale.com/TowerWiFi** to find pertinent information for the TWR-WIFI-G1011MI module, including:

- TWR-WIFI-G1011MI User's Manual
 - TWR-WIFI-G1011MI Schematics
 - TWR-WIFI-G1011MI Lab Tutorials
 - TWR-WIFI-G1011MI MQX Enablement patch
- And more

To learn more about the TWR-WIFI-G1011MI and other modules within the Tower System, go to **freescale.com/Tower**. To become a member of the online Tower Geeks community, go to **towergeeks.org**.

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