TWR-WIFI-G1011MI

802.11 Wi-Fi® module

freescale™
semiconductor

Get to Know the TWR-WIFI-G1011MI

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

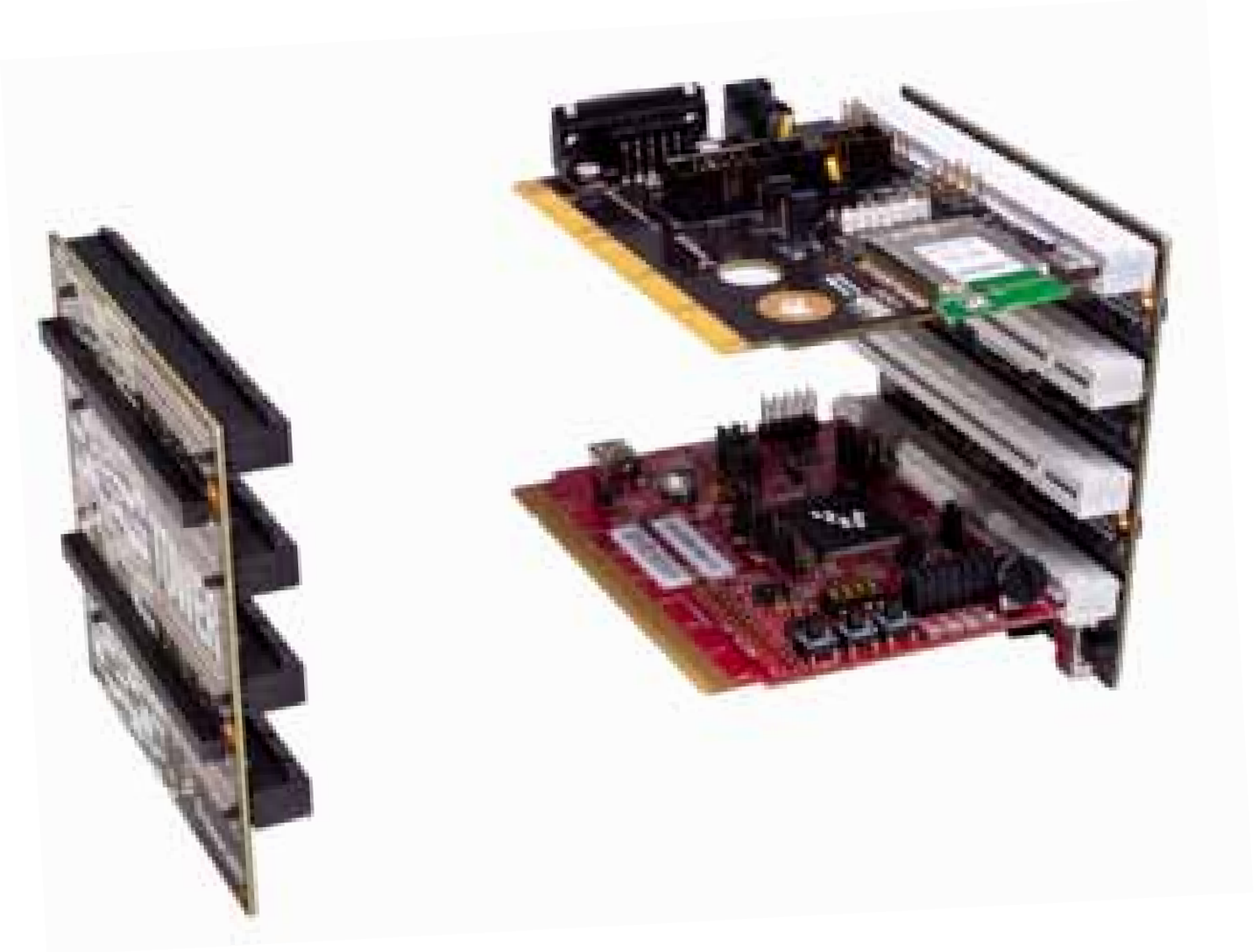
Step-by-Step Installation Instructions

STEP 1

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

STEP 2

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



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

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.

TWR-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		**1–2**	Connect GS1011MI reset to Tower RSTOUT (A63)
		2–3	Connect GS1011MI reset to Tower GPIO1 (B21)

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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