



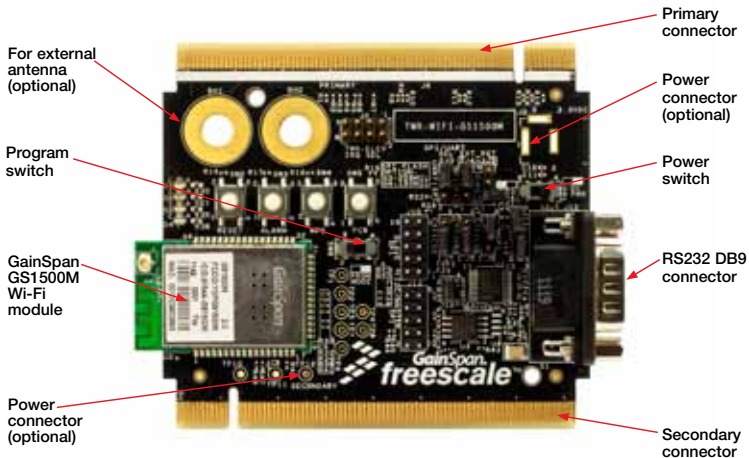
Quick Start Guide

TWR-WIFI-GS1500M
802.11b/g/n Wi-Fi® Module



TOWER SYSTEM

Get to Know the TWR-WIFI-GS1500M



TWR-WIFI-GS1500M Freescale Tower System

The TWR-WIFI-GS1500M 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 prototyping with your Tower System today.

TWR-WIFI-GS1500M Features

- Features GS1500M Wi-Fi module from GainSpan
 - Operates with standard 802.11 b/g/n access points at speeds up to 72 Mb/s
- Supports Infrastructure, Limited AP, Ad hoc or Wi-Fi Direct mode
 - UART and SPI interfaces:
 - Clock rate of up to 1.4 Mb/s in SPI slave mode
 - Data rates of up to 921.6 Kb/s 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.

TWR-WIFI-GS1500M Jumper Options

The following is a list of all jumper options. The default installed jumper settings are shown in white text within the black boxes.

Jumper	Option	Setting	Description
SW1	Power Supply Input	ELEV PWR	Power from Tower System 3.3 V
		DC PWR	Power from DC power jack (J2)
SW6	Mode Selection	RUN	GS1500M in standard "run" mode
		PRGM	GS1500M in program mode
J1	Interrupt Selection	1-2	Connect GS1500M interrupt to Tower IRQ_G (B56)
		3-4	Connect GS1500M interrupt to Tower IRQ_E (B58)
		5-6	Connect GS1500M interrupt to Tower IRQ_C (B60)
		7-8	Connect GS1500M interrupt to Tower IRQ_A (B62)
J3	SPI/UART Selection	1-2	Select SPI as serial interface
		2-3	Select UART as serial interface
J4	GS1500M Reset Selection	1-2	Connect GS1500M reset to Tower GPIO9 (A9)
2-3		No connection	
J5		1-2	Connect GS1500M reset to Tower RSTOUT (A63)
	2-3	Connect GS1500M reset to Tower GPIO1 (B21)	

Jumper	Option	Setting	Description
J7	Slave SPI Port CS Selection	1-2	Connect Tower SPI0_CS0 to slave SPI CS on GS1500M
		2-3	Connect Tower SPI0_CS1 to slave SPI CS on GS1500M
J8	UART Routing Selection	1-2	Connect GS1500M UART0 to onboard RS232/DB9
		2-3	Connect GS1500M UART0 to Tower System
J9	Master SPI Port CS Selection	1-2	Connect Tower SPI1_CS1 to master SPI CS on GS1500M
		2-3	Connect Tower SPI1_CS0 to master SPI CS on GS1500M
J11	Power Isolation and Current Measurement	ON	Connect GS1500M power supplies to the 3.3 V supply source
		OFF	Isolate GS1500M from power supplies. J11 can be used to measure the energy consumption of the VBAT, VDDIO and EN_1V8 supplies to the GS1500M.

Jumper	Option	Setting	Description
J14	RS232 Transceiver Force-off	ON	RS232 transceiver operates in normal mode
		OFF	RS232 transceiver forced off
J15	UART CTS Isolation	ON	Connect UART0_CTS from GS1500M to RS232 transceiver
		OFF	Disconnect UART0_CTS from RS232 transceiver





Visit freescale.com/TowerWiFi for the software and documentation necessary to get started. Here, you'll find additional information, including:

- TWR-WIFI-GS1500M user guide
- TWR-WIFI-GS1500M schematics
- Tower System fact sheet
- Pre-compiled example application
- TWR-WIFI-GS1500M lab tutorial document
- TWR-WIFI-GS1500M serial-to-Wi-Fi reference application
- TWR-WIFI-GS1500M MQX™ enablement patch (future)

Support

Visit freescale.com/support for a list of phone numbers within your region.

Warranty

Visit freescale.com/warranty for complete warranty information.

For more information, visit freescale.com/Tower

Join the online Tower community at towergeeks.org

Freescal and the Freescale logo are trademarks of Freescale Semiconductor, Inc., Reg. U.S. Pat. & Tm. Off. All other product or service names are the property of their respective owners. © 2012 Freescale Semiconductor, Inc.

Document Number: TWRWIFIGS1500QSG REV 0
Agile Number: 926-27366 REV A

