



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Quick Start Guide

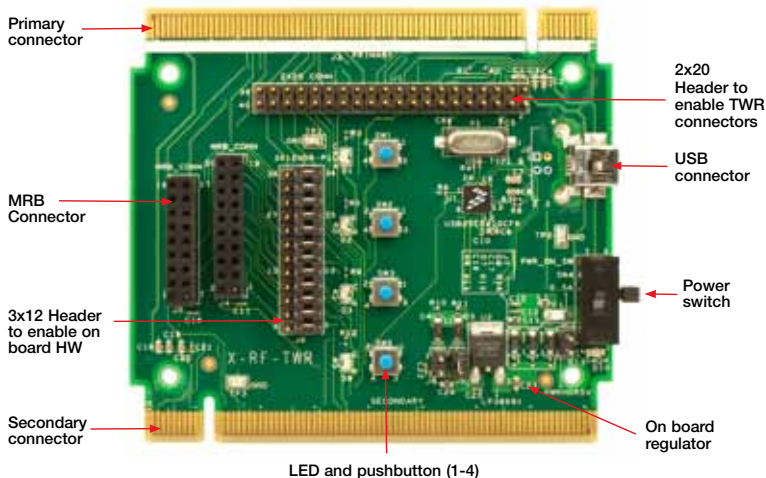
## TWR-RF-MRB

RF Tower System Module for Freescale  
Wireless Modular Reference Boards



**TOWER SYSTEM**

# Get to know the TWR-RF-MRB



## TWR-RF-MRB Freescale Tower System

The TWR-RF-MRB module is part of the Freescale Tower System portfolio, a modular development platform that enables rapid prototyping and tool re-use through reconfigurable hardware. Elevate your design to the next level with this industrial power house by building your Tower System today.

## TWR-RF MRB Features

The TWR-RF is a Tower System controller module compatible with the Freescale Tower System. It can function as a stand-alone, low-cost platform for the evaluation of the MC12311 or MC1323x devices using the appropriate modular reference board (MRB) (12311-MRB or 1323x-MRB). The TWR-RF module works with the Tower System elevator modules (TWR-ELEV) and can also be combined with other Freescale Tower System peripheral modules to create development platforms for a wide variety of applications.

The board photo on the opposite page identifies some of the key features of the TWR-RF module. The following list summarizes those features:

- Standard sockets 100 mils J5 and J4 (2x9 and 2x10) to connect either an MC1323x MRB or an MC12311 MRB
- Standard header 100 mils J1 (2x20) to enable signaling path to TWR primary and secondary connectors
- Standard header 100 mils J6 (3x12) to enable signaling to onboard HW and USB interface or to TWR system hardware
- On-board regulator to provide external supply
- Four (4) user-controllable LEDs
- Four (4) user pushbutton switches
- USB Mini-B connector



For more information on the TWR-RF-MRB module, see the Tower-RF Reference Manual (TWRRFRM) located at **freescale.com**.

## 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/Wireless** or **freescale.com/Tower**

Join the online Tower community at **towergeeks.org**

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