



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!



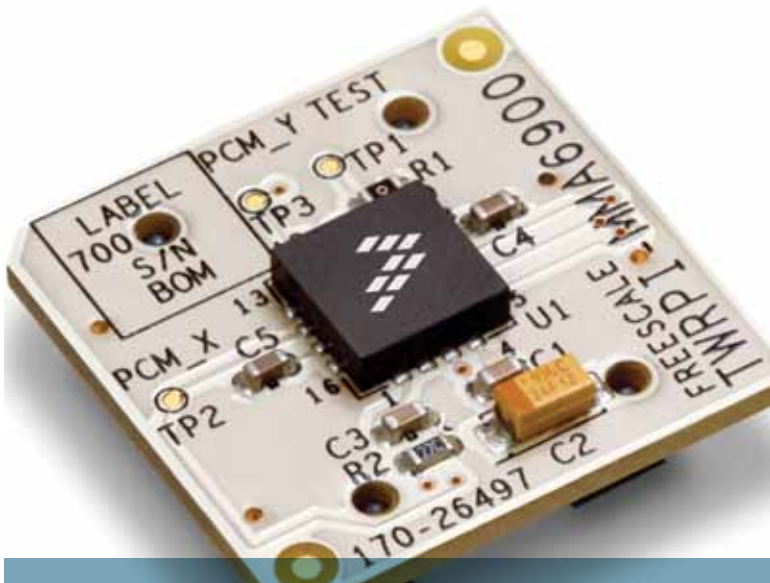
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TWRPI-MMA6900

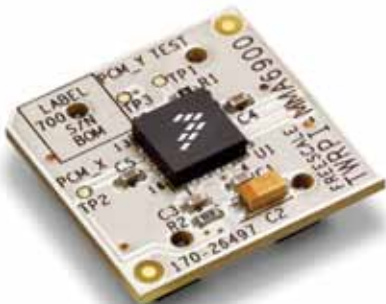
Accelerometer plug-in module
for the Tower System



Get to know the TWRPI-MMA6900

Features

- MMA6900Q: ± 3.5 g (11-bit data sensitivity = 3.43 mg/digit typical at 25 degrees C)
- Low detection threshold of 8.6 mg (acceleration) or ≥ 0.5 degrees (angle)
- Offset tolerance value at 25 degrees C (± 30 mg) and over temperature (± 50 mg)
- Embedded signal processing including fault and overload diagnostic flagging
- 11-bit SPI-compatible digital data
- Bi-directional internal self-test
- Qualified AEC-Q100
- Wide operating temperature range from -40 degrees C to $+105$ degrees C
- Over-damped transducer
- Robust 6 x 6 mm QFN package with greater than 100 kHz package resonance frequency
- 3.3 V or 5 V single supply operation



Step-by-step installation instructions

In this Quick Start Guide, you will learn how to install the TWRPI-MMA6900 Tower plug-in.

STEP
1

Install the TWRPI-MMA6900

- Identify an open general purpose TWRPI socket on a TWRPI-compatible Tower System module.
- Identify the correct orientation of the TWRPI-MMA6900.
- Carefully insert the TWRPI-MMA6900 into the available general purpose TWRPI socket. The TWRPI is keyed and uniquely sized to only fit in the appropriate TWRPI socket with the correct orientation.

STEP
2

Verify latest software installation

- Check freescale.com/tower for software updates regarding the TWRPI-compatible Tower System

module. Updating the software on the respective Tower System module will ensure that the TWRPI you are adding is fully supported.

STEP
3

Follow the respective Tower System module Quick Start Guide

- Follow the appropriate instructions located in the Quick Start Guide of the TWRPI-compatible Tower System module.

STEP
4

Explore additional resources

- Additional documentation and software resources related to the TWRPI-MMA6900 are available at freescale.com/tower.

To learn more about the TWRPI-MMA6900 and other modules within the Tower System, visit freescale.com/tower. To become a member of the online Tower Geeks community, visit towergeeks.org.

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