Freescale - TWR-MCF5225X-KIT - TWR-MCF5225X-KIT

Low-Cost Development Kit

Product Overview:

The TWR-MCF5225X-KIT is a low-cost development tool for the MCF5225X V2 ColdFire® devices. Offered as a kit or as a standalone board, the TWR-MCF5225X is part of the Freescale Tower System, a modular, reconfigurable development platform that allows designers to get to market faster with packaged evaluation boards, tools and runtime software.

The TWR-MCF5225X comes complete with Freescale MQX™ software and an evaluation version of CodeWarrior Development Studio to ease application development and debug.

Kit Contents:

The TWR-MCF5225X-KIT development tool comes as a complete kit with the following:

- TWR-MCF5225X - Connectivity module that features the MCF5225X and has push buttons, LEDs, potentiometer and more
- TWR-SER - Serial module that features Ethernet, USB, RS232/485 and CAN
- TWR-ELEV - Two elevator boards that provide structural integrity, communications interfaces, power regulation circuitry with standardized bus
- USB/Ethernet cables
- An interactive DVD with lab tutorials, software, training and collateral
- A printed guide on how to quickly get started using the development kit.

Key Features:

- TWR-MCF5225X Microcontroller Module Features:
    - Freescale Tower System compliant
    - MCF5225X V2 ColdFire Microcontroller
- Complimentary Freescale MQX™ software solutions

- Connectivity: USB 2.0 full-speed host/device/OTG controller; FlexCAN controller; 10/100 Ethernet controller
- External Mini-FlexBus interface
- Cryptographic accelerator unit

    - Integrated, Open-Source BDM
    - Small form factor (59mm x 90mm) standard with Freescale Tower System
- TWR-SER Peripheral Module Features:
    - RS232 and RS485
    - Ethernet
    - CAN
    - USB supporting host, device and OTG modes
- TWR-ELEV Features:
    - Supports external communications interfaces
    - Includes power regulation circuitry with standardized bus
    - Four card-edge PCI Express connectors
    - Two 80-pin connectors on the outside to support debugging or expansion to LCD module

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
TWR-MCF5225X-KIT	Freescale	1784753	51R8551

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
TWR-ELEV	Freescale	Tower System Elevator boards	1718352	11R0867
TWR-SER	Freescale	Tower System Serial module board	1718355	11R0870
TWR-MCF5225X	Freescale	Tower System 32-bit MCF52 V2 MCU module board only	1784752	51R8550
MMA7260QT	Freescale	Acceleration Sensor IC	1457139	01M6018

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
TWR-MCF51CN-KIT	Freescale	Tower System Kit w/ 32-bit V1 MCU board, serial and elevators boards	Tower Development System	1718354	11R0869
TWR-S08LL64-KIT	Freescale	Tower System Kit w/ 8-bit S08 MCU board and LCD, prototype and elevators boards	S08LL64	1780465	51R8554

Document List:

Datasheets:

Part Number	Description	Size
950-00011	CodeWarrior Development Studio for ColdFire Architectures	460KB
MCF52259	MCF52259 ColdFire Microcontroller	3110KB

Application Notes:

File Name	Size
USB Boot loader for the MC9S08JM60	2010KB
AN3779 - Ethernet Plus USB Applications Based on the MCF52259 HTTP/TFTP Server Plus USB Mass Storage Host	357KB
AN3854 - Using the Mini-FlexBus External Bus Interface for ColdFire® Microcontrollers	351KB

Hardware & Software:

File Name	Size
TWR-MCF5225X Hardware Design Source Files Cadence Or CAD and Allegro design source files	3040KB

Others Resources:

File Name	Size
TWR-MCF5225X User Manual	318KB
Quick Start Guide for TWR-MCF5225X	242KB