freescale
semiconductor

M52259DEMOKIT Freescale - M52259DEMOKIT Low-Cost Demonstration Board Kit

Product Overview:

The MCF5225x family consists of highly integrated devices with on-chip USB, Ethernet, CAN and encryption functions, featuring the complete Freescale MQX RTOS software at no additional cost. This solution is ideal for factory automation, building control, and medical applications.

Kit Contents:

The R MCF52259 Demo Kit contains the hardware and software essentials you will need to use it. The items in the Demo Kit are as follows.

- MCF52259DEMO Kit
- Quick Start Guide
- Lab Tutorials
- CodeWarrior™ Manual
- Getting Started DVD

Key Features:

- V2 ColdFire® core with 66 MHz and 80 MHz options
- 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
- Up to 512Kbytes of flash memory
- Up to 64Kbytes SRAM

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
M52259DEMOKIT	Freescale	1698078	48P5559

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
SPC4800	SPC Technology	USB 2.0 Cable Assembly	4556604	83K3790
SPC19944	SPC Technology	Shielded Serial Cable Assembly	1702769	83K3689
CWA-STANDARD-N	Freescale	Software, suite licence, c/w, standard	1750496	26R5712
USBMLCF	Freescale	USB ColdFire Multilink	1535884	01M6486
MCF52259CAG80	Freescale	ColdFire Microcontroller datasheet	1698075	09P3975
MIC2026-1BM	Micrel	Dual-Channel Power Distribution Switch	4461964	05C4401
NC7SZ125L6X	Fairchild Semiconductor	Tiny Logic UHS Buffer with 3-STATE Output	NA	83C0005

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
M52259EVB	Freescale	MCF5225x Evaluation Board	MCF52259	1698077	NA
M52277EVB	Freescale	MCF52277 Evaluation Board	MCF52277	1615617	NA
M52335EVB	Freescale	Evaluation Kit for MCF5223x Microcontrollers	MCF52335	1437333	01M6106
M52233DEMO	Freescale	MCF52233 Low Cost Evalua	MCF52233	1653791	01M6105
M5208EVBE	Freescale	DEVELOPMENT KIT, MCF5207/8	MCF5208	1322390	NA

Document List:

Datasheets:

Part Number	Description	Size
MCF52259	MCF52259 ColdFire Integrated Microcontroller Reference Manual	17.3MB
MCF52259	MCF52259 ColdFire Microcontroller datasheet	3.1MB
MIC2026	MIC2026 Dual-Channel Power Distribution Switch	180KB
NC7SZ125	NC7SZ125 TinyLogic UHS Buffer with 3-STATE Output Datasheet	100KB
SN54ACT573	SN54ACT573, SN74ACT573 OCTAL D-Type Transparent Latches Datasheet	524KB
SN74LVC2G125	SN74LVC2G125 Dual Bus Buffer Gate Datasheet	348KB

Application Notes:

File Name	Size
AN3779 Ethernet Plus USB Applications Based on the MCF52259	357KB
Freescale MQX RTOS, USB, TCP and IP Lab Tutorials for MCF52259	2.76MB
AN3902 How to Develop IO Drivers for MQX	1.12MB
AN3854 Using the Mini-FlexBus External Bus Interface for ColdFire® Microcontrollers	351KB

Hardware & Software:

File Name	Size
Evaluation: CodeWarrior for ColdFire Architectures	301MB
CodeWarrior for ColdFire v7.1.2 Patch	162MB
M52259DEMOMCU_BOM	11KB
M52259DEMOMCU_SCH	451KB
CodeWarrior 7.1.1 patch for MCF5225x	52.7MB
M52259EVB_SCH	138KB
OSBDM-JM60 Firmware for M52259DEMOKIT	1.7MB
MCF5225x USB Bootloader Lab tutorial	626KB
Evaluation: CodeWarrior for ColdFire Architectures	301.6MB
CodeWarrior for ColdFire v7.1.2 Patch	161.9MB
CodeWarrior 7.1.1 patch for MCF5225x	52.7MB
Firmware for M52259DEMOKIT	1.69MB
MCF52259 CMX USB—Lab Tutorial	441KB

Others Resources:

File Name	Size
MCF5225x & Freescale MQX introduction	4:43Min