freescale
semiconductor

Freescale - M52221DEMO - M52221DEMO Low Cost Development Board

Product Overview:

The M52221DEMO is a low-cost development board for Freescale's MCF52221 ColdFire microcontroller. Application development is quick and easy with the included DB9 serial cable, integrated BDM, and USB cable. A 128 MB flash-drive and 6-in-1 USB cable provide support for the integrated USB PHY. CodeWarrior Development Tools provide application develop-ment and debug support. The integrated BDM allows easy application development and de-bugging. An optional BDM port compatible with standard ColdFire BDM/JTAG interface cables and hosting software is also provided but not installed.

The target MCU features an on-board USB On-the-Go (OTG) physical layer (Phy). The OTG Phy may be configured for either Host or Peripheral mode depending on the target application.

Kit Contents:

- MCF5222x   CPU 80 LQFP
- 128 MB flash-drive
- Integrated BDM
- M52221DEMO User's Manual
- DB9 Serial Cable
- 6-in-1 USB Cable
- Ethernet Cable
- CodeWarrior Development Studio CD

Key Features:

- MCF52221 CPU

- 80 LQFP
- 128 Byte Flash
- 16K Byte Ram
- USB On-The-Go (OTG) Phy
- 4ch, DMA Controller w/ Timers
- 2ea. Programmable Interrupt Timer
- 4 GPT Timers
- 8ch, 12b ADC
- UART Serial Ports with DMA capability
- QSPI and IIC Ports
- 3.3V operation

- Integrated USB BDM
- 48 MHz XTAL
- 40 pin I/O port
- miniUSB Port
- BDM / JTAG Port (not installed)
- RS-232 Serial Port w/ DB9-S Connector
- ON/OFF Power Switch w/ LED indicator
- RESET switch w/ indicator
- Power Input Selection Jumper
- User Features

  - 3-axis Accelerometer
  - 4 User LED's w/ enable
  - 2 User Push Switches
  - 5k ohm POT w/ enable

- Option Jumpers
- Connectors

  - RJ-45 Ethernet Connector
  - Type B USB connector
  - DB9 Serial Connector
  - 2.0mm Barrel Power Input
  - 2pos, screw type, terminal block

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
M52211DEMO	Freescale	1692123	51M5806

| M52211DEMO. | Freescale | 1437353 | NA |

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
MCF52221CAF80	Freescale	32-Bit Microcontroller IC	1380373	22M5743
MCF52221CAE66	Freescale	32-Bit Microcontroller IC	1380371	22M5741
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
USBMULTILINKBDME	Freescale	In-Circuit Emulator, Debugger and Programmer for HCS08, HC(S)12(X), RS08, and ColdFire V1	1165943	83K3802
ICL3225ECAZ	Intersil	RS232 Transceiver, SSOP20	9663959	92K0557
MMA7260QT	Freescale	Acceleration Sensor IC	1457139	01M6018
LM2937ES-3.3/NOPB	NS	Low Dropout Regulator	1469066	41K4538

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
M52211EVB	Freescale	M52211EVB board	MCF52211	1499752	40M1312
M52223EVB	Freescale	M52223EVB board	M52223	NA	14M6320
M52223EVB.	Freescale	M52223EVB board	M52223	1579760	NA
M52210DEMO	Freescale	M52210 DEMO board	MCF52210	1692139	69M4030
M52210DEMO.	Freescale	M52211 DEMO board	MCF52210	NA	NA

Document List:

Datasheets:

Part Number	Description	Size
MMA7260QT	MMA7260QT, ±1.5g - 6g Three Axis Low-g Micro machined Accelerometer	194KB
MCF5221X	MCF5221X: 32-Bit Microcontroller with USB On-The-Go	1.2MB
ADM869L	High-Side P-Channel Switch with Current Limit and Thermal Shutdown - Analog Devices	124KB
ICL3225	RS-232 Transceivers with Enhanced Automatic Power down	462KB
LM2937	500 mA Low Dropout Regulator	309KB

Application Notes:

File Name	Size
M5211DEMO User Guide	345KB
AN3523 Advanced CMX_USB_Stack Applications	616KB
M52210DEMO Quick Start Guide	27KB
MCF52211 Evaluation Board	14KB
MCF5221X_CWEXAMPLES	-

Hardware & Software:

File Name	Size
M52210DEMO Schematics	228KB
Evaluation: CodeWarrior for ColdFire Architectures	301MB
CodeWarrior for ColdFire v7.1.2 Patch	162MB
Evaluation: CodeWarrior for ColdFire Architectures	301.6MB
CodeWarrior for ColdFire v7.1.2 Patch	161.9MB
M52210DEMO Software	380KB
ColdFire Flash Programmer	5MB