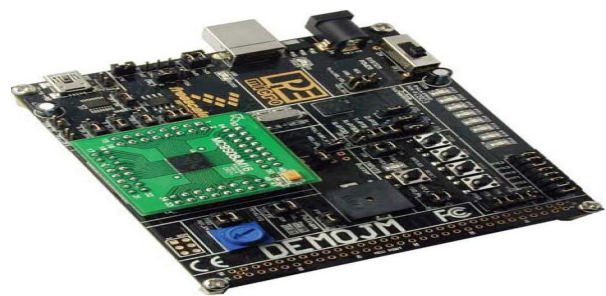# Freescale - DEMO9S08JM16 - MC9S08JM16 Demonstration Board

Product Overview:

The DEMO9S08JM16 is a low cost development system supporting Freescale MC9S08JM16 microcontrollers. It consists of a DEMOJM Base Board and a DC9S08JM16 Daughter Card. P&E's Embedded Multilink circuitry on the DEMOJM board allows the processor connected to the DEMOJM to be debugged and programmed via USB from a PC. In addition, the demo board can be powered using the USB bus.

Kit Contents:

The DEMO9S08JM16 package includes the following items:

- DEMOJM Base Board with a DC9S08JM16 Daughter Card installed
- Getting Started DVD - Getting started with the series of microcontrollers

  - Freescale MC9S08JM16 reference manual and datasheet
  - DEMOJM Base Board and Daughter Card schematic
  - P&E Embedded Multilink Toolkit applications
  - P&E Embedded Multilink driver installation guide and resources

- USB A-to-B Cable
- Mini-AB USB Kit
- Quick Start Guide
- Freescale Warranty Card

Key Features:

- On-board Logic Analyzer
- On-board Virtual Serial Port
- Four (4) asymmetrically positioned 8x2 male connectors for interchangeable daughter cards
- P&E's Embedded Multilink circuitry populated on the underside

- SCI signals connected to P&E's Embedded Multilink through jumpers
- ON/OFF Power Switch w/ LED indicator
- A 6VDC to 8VDC power supply input barrel connector
- Power Input Selection Jumpers for selecting the input voltage source:

  - Power Input from Embedded Multilink to LDO
  - Power Input from DC Power Jack to LDO regulator
  - Power Input from Mini-AB connector
  - Power Input from MCU_PORT connector

- RESET Push Button and LED indicator w/ Enable
- User Features:

  - USB device mode and host mode support with Mini-AB USB connector
  - CAN Module w/Enable
  - 3-axis Accelerometer w/Enable
  - 8 User LED's w/ Enable
  - 4 User Push Buttons w/ Enable
  - 1 Piezo Buzzer w/ Enable
  - IIC Pullups w/ Enable
  - 10K Ohm POT w/ Enable

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DEMO9S08JM16	Freescale	1692087	12N5740

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
MC9S08JM16CGT	Freescale	8-Bit Microcontroller IC	4480338	89M1981
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),	1165943	83K3802

		RS08, and ColdFire V1		
SN74LVC2G125DCUR	TI	Logic - Buffer IC	1287415RL	76C4200
MMA7260QT	Freescale	Acceleration Sensor IC	1457139	01M6018
TJA1050TD	NXP	CAN Transceiver IC	8804613	NA

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DEMO9S08LL16	Freescale	S08LL Demonstration Board	MC9S08LL16	NA	40P4105
DEMO9S08SH32	Freescale	MC9S08SH16, MC9S08SH32 Demonstration board	MC9S08SH16 MC9S08SH32	NA	69M1818
DEMO9S08LL16	Freescale	S08LL Demonstration Board	MC9S08LL16	NA	40P4105
DEMO9S08JS16	Freescale	JS16 Demonstration Kit	MC9S08JS16	1704520	40P4104

Document List:

Datasheets:

Part Number	Description	Size
AS1117	AS1117 800mA Low Dropout Regulator	76.9KB
ADM869L	High-Side P-Channel Switch with Current Limit and Thermal Shutdown	124KB
TJA1050T	CAN Transceiver IC	120KB
MC9S08JM16	MC9S08JM16 Data Sheet	7.6MB

Application Notes:

File Name	Size
DEMO9S08JM16 Quick Start Guide	237KB
DEMO9S08JM16 LAB Supplement	298KB
AN3565: USB and Using the CMX USB Stack with 9S08JM Devices	363KB
AN3564: Customize the USB application Using the MC9S08JM	247KB
Medical Applications USB Stack User Guide	3.46MB

[HCS08 Family Reference Manual](#)	3.5MB

Hardware & Software:

File Name	Size
[DEMO9S08JM16SCH](#)	195KB
[Evaluation: CodeWarrior for Microcontrollers](#)	45.8MB
[Special Edition: CodeWarrior for Microcontrollers](#)	45.8MB
[CW MCU v6.2.2 Compiler Patch](#)	113MB
[CodeWarrior for Microcontrollers v6.1 - JM16 Service Pack](#)	2.4MB
[CodeWarrior for Microcontrollers v6.1 - Processor Expert Update v3.03](#)	178MB