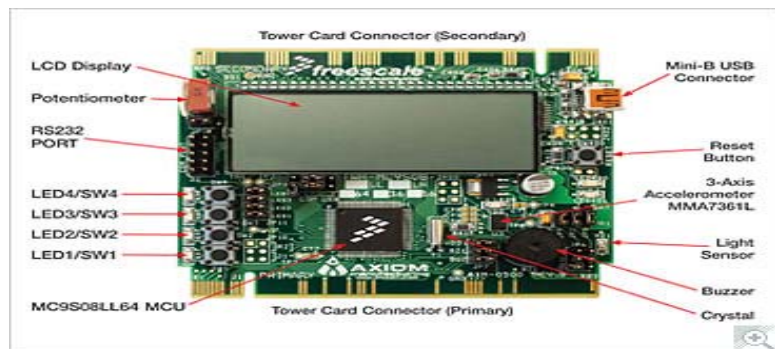




Freescale - TWR-S08LL64 - TWR-S08LL64 Development Kit

Product Overview:

The cost effective TWR-S08LL64 development tool is part of the Tower System and features the MC9S08LL64 segment LCD controller. It provides everything a designer needs to develop and evaluate application code. The integrated OSBDM allows a designer to communicate with the board and target device with only a USB cable and the board highlights the MCU's low power features.



Kit Contents:

- TWR-S08LL64 - 8-bit Segment LCD module that features the MC9S08LL64
- Necessary 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:

- 5 K One Turn Potentiometer
- RS232 port
- MC9S08LL64 MCU
- 32,768 Hz Crystal
- Freescale 3 axis accelerometer ADC input to MCU
- Buzzer
- Light Sensor with LP filter and op amp
- Mini-B USB connector
- 1 reset push button and 4 push switches
- 2 x 28 segments LCD display

Ordering Information:

Products:

| Part Number | Manufacturer | Farnell P/N | Newark P/N |
|-------------|--------------|-------------|------------|
| TWR-S08LL64 | Freescale | 1784756 | 51R8553 |

Associated Products:

| Part Number | Manufacturer | Description | Farnell P/N | Newark P/N |
|------------------|-------------------|--|-------------|------------|
| MC9S08LL64CLH | Freescale | MC9S08LL64 Microcontroller | 1780361 | 14R8910 |
| MC9S08LL64CLK | Freescale | MC9S08LL64 Microcontroller | 1780362 | 14R8911 |
| TWR-S08LL64-KIT | Freescale | Tower System Kit w/ 8-bit S08 MCU board and LCD, prototype and elevators boards | 1784757 | 51R8554 |
| MMA7361LT | Freescale | Acceleration Sensor IC | NA | 11N7546 |
| LM321MF | NS | OP Amplifier | 9779116 | 37K8530 |
| MAX3218CAP+ | Maxim | RS232 Transceiver | 1593346 | 67K4817 |
| TLV1117-33CDCY | TI | Adjustable and fixed low-dropout voltage regulator | 1494942 | 67K8522 |
| MIC2026-1YM | MICREL | Dual-channel power distribution switch | 1517242 | 67J0260 |
| MC9S08JM60CLD | Freescale | MC9S08JM60 microcontroller | 1562864 | 54M7190 |
| NUP2201MR6T1G | ON Semi | Transient Voltage Suppressor (TVS) Diode | NA | 64R8606 |
| 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 |

| | | | | |
|----------------|-----------|---|---------|---------|
| M68CYCLONEPROE | Freescale | Cyclone Pro Universal Standalone In-Circuit Debugger/Programmer | 1579766 | 01M6114 |
|----------------|-----------|---|---------|---------|

Similar Products:

| Part Number | Manufacturer | Description | Support Device | Farnell P/N | Newark P/N |
|-----------------|--------------|--|--------------------------|-------------|------------|
| DEMO9S08JM16 | Freescale | MC9S08JM16 Demonstration board | MC9S08JM16 | NA | 12N5740 |
| TWR-SER | Freescale | Tower System Serial module board | MCF51CN128 | 1718355 | 11R0870 |
| TWR-MCF51CN-KIT | Freescale | Tower System Kit w/ 32-bit V1 MCU board, serial and elevators boards | MCF51CN128 | 1718354 | 11R0869 |
| DEMO9S08JS16 | Freescale | MC9S08JS16 Demonstration board | MC9S08JS16 | 1704520 | 40P4104 |
| DEMO9S08LL16 | Freescale | S08LL Demonstration Board | MC9S08LL16 | NA | 40P4105 |
| DEMO9S08SH32 | Freescale | MC9S08SH16, MC9S08SH32 Demonstration board | MC9S08SH16 MC9S08SH32 | NA | 69M1818 |

Document List:

Datasheets:

| Part Number | Description | Size |
|----------------|--|--------|
| MC9S08LL64 | MC9S08LL64 Data Sheet | 878KB |
| MC9S08LL64 | MC9S08LL64 Reference Manual | 4.77MB |
| LM321MF | LM321 Datasheet | 237KB |
| MMA7361LT | Acceleration Sensor IC | 170KB |
| MAX3218 | RS232 Transceiver | 123KB |
| TLV1117-33CDCY | Adjustable and fixed low-dropout voltage regulator | 1.14MB |
| MIC2026-1YM | Dual-channel power distribution switch | 982KB |
| MC9S08JM60CLD | MC9S08JM60 datasheet | 4.68MB |
| NUP2201 | Transient Voltage Suppressor (TVS) Diode | 168KB |

Application Notes:

| File Name | Size |
|--|-------|
| Freescale Embedded Software Library S08 API Reference Manual | 470KB |
| Getting Started with Freescale Development Tools Brochure | 999KB |
| CodeWarrior Development Studio for Microcontrollers V6.x Quick Start | 1.1MB |
| TWRS098LL64LAB2 Lab Tutorials | 3.3MB |

Hardware & Software:

| File Name | Size |
|--|--------|
| Tower Configuration Tool 2.0 | 199kB |
| CW MCU v6.2 JS16 Service Pack | 1.87MB |
| TWR-S08LL64-KIT Base Board Schem | 600KB |
| FSL Mini-USB stack | 932KB |
| P_E Micro Demo Board Toolkit | 186MB |
| USB_demo_code_Mini_stack | 848KB |

Others Resources:

| File Name | Size |
|--|---------|
| TWR-S08LL64 Quick Start Demo | 3:56Min |
| Tower System: TWR-S08LL64 Kit Overview | 5:12Min |