freescale™
semiconductor

MC9S08LH64 8-Bit HCS08 Central Processor Unit

General Description:

Freescale expands the first S08 ultra-low-power MCU with LCD driver and increased ADC accuracy for medical and metering applications. The MC9S08LH family available with up to 64KB flash helps you reach your target performance levels while minimizing power consumption in your design, demonstrating extreme energy efficiency for ultra-long operation in battery-powered applications.

Key Features:

- Up to 40 MHz CPU at 3.6 V to 2.1 V across temperature range of 40 °C to 85 °C
- Up to 20 MHz at 2.1 V to 1.8 V across temperature range of 40 °C to 85 °C
- Two ultra-low-power stop modes and new low-power run and wait modes
- Integrated LCD driver supports both standard 3V and 5V LCD glass
- Configurable display for 8 x 36 or 4 x 28 segment display
- LCD driver pins are muxed with GPIO and other functions
- Up to 64 KB flash read/program/erase over full operating voltage and temperature
- SCI and SPI interfaces
- ADC, ICS, I2C and 38 GPIO
- Analog comparator with selectable interrupt on rising, falling or either edge of comparator output
- Single-wire background debug interface

Applications:

- Single phase electricity meters
- Low-end utility metering
- Portable medical equipments
- Thermostats
- Automated test equipments
- Industrial process control and measurement
- Sensor interfacing
- Digital scales

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
MC9S08LH64CLH	1812176	74R4432	MC9S08LH64 8-Bit HCS08 Central Processor Unit--64LQFP