RTC IC, Date Time Format (Date/Month/Year hh:mm:ss), I2C, 1.8 V to 5.5 V, SOIC-8

| | |
|---|---|
| Manufacturers | Microchip Technology, Inc |
| Package/Case | SOIC-8 |
| Product Type | Clock & Timer ICs |
| RoHS | Rohs |
| Lifecycle | |

Images are for reference only

Please submit RFQ for MCP7940M-I/SN or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

## General Description

The MCP7940M I2CTM compatible real-time clock/calendar (RTCC) includes SRAM and a digital trimming circuit for accuracy which is normally found in higher priced devices. Using a low-cost 32,768 kHz crystal or other clock source, time is tracked in either a 12-hour or 24-hour format with an AM/PM indicator and timing to the second, minute, hour, day of the week, day, month and year. As an interrupt or wakeup signal, a multifunction open drain output can be programmed as an Alarm Out or as a Clock Out that supports 4 selectable frequencies.

# Features

Timekeeping

Real-Time Clock/Calendar (RTCC)

Hours, Minutes, Seconds, Day of Week, Day, Month, Year

Leap year compensated to 2399

12/24 hour modes

On-Chip Digital Trimming/Calibration

1 PPM Resolution

Dual Programmable Alarms

Versatile Output Pin

Clock output with selectable frequency

Alarm output

General Purpose output

64 Bytes SRAM

2-Wire Serial Interface, I2C™Compatible
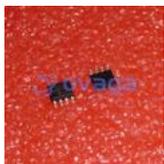
I2C Clock Frequency up to 400 kHz

Low-Power

Wide Voltage Range

Operating Voltage 1.8V to 5.5V

Low Typical Timekeeping Current

## Related Products

**MCP79412-I/SN**

Microchip Technology, Inc

SOIC-8

**MCP79410T-I/SN**

Microchip Technology, Inc

SOIC-8

**MCP79411-I/SN**

Microchip Technology, Inc

SOIC-8

**MCP79511-I/MS**

Microchip Technology, Inc

MSOP-10

**MCP79510-I/MS**

Microchip Technology, Inc

MSOP-10

**MCP79411-I/MS**

Microchip Technology, Inc

MSOP-8

**MCP79410T-I/MNY**

Microchip Technology, Inc

TDFN-8

**MCP79410T-I/MS**

Microchip Technology, Inc

MSOP-8