

Alarm RTC IC, Date Time Format (Day/Date/Month/Year hh:mm:ss), I2C, 1.8 V to 5.5 V supply, 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 MCP7940MT-I/SN or [Email to us: sales@ovaga.com](mailto: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](#)

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[MCP79411-I/SN](#)

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