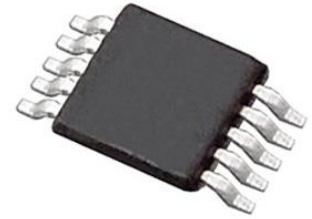Alarm RTC IC, Year/Month/Week/Date/Hr/Min/Sec 12Hr / 24Hr, SPI, 1.8 V to 3.6 V, MSOP-10

Manufacturers	Microchip Technology, Inc
Package/Case	MSOP-10
Product Type	Clock & Timer ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for MCP79511-I/MS or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

The MCP79511 SPI RTCC is highly integrated with memory and advanced features normally found in higher priced devices. By starting with a basic real-time clock, digital trimming was added for higher accuracy, a battery switchover for backup power, a timestamp to log power failures and three types of memory, which includes SRAM, EEPROM and a unique ID in a locked section of EEPROM. This ID is preprogrammed with a 48-bit MAC Address, but it can also be ordered blank for the end user to program.

Features

General purpose SPI RTCC with features that target low power, security & communicationsapplications.

Low Power Operation

VCC>

Icc < 5 µA Typical Standby Current

Low Backup Power

VBAT>

Ibat < 700nA Typical Timekeeping & SRAM Retention Current

Automatic Battery Switchover with Timestamp

VCC to VBAT (VCC Lost)

VBAT to VCC (VCC Restored)

Dual configurable alarms with a 0.01 sec count on one alarm

IRQ (VCC or VBAT)

Clock Out frequencies: 32.768, 8.192 & 4.096 KHz and 1 Hz

Digital Trimming Range from -255 to + 255 ppm in 1 ppm steps

Adjusts up to 22 seconds/day

EEPROM has 8 Bytes/Page with Block Sector write protection

Protect: None, 1/4, 1/2 or all of array

Factory standard MAC address programming or custom ID available

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

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

MCP79410-I/MS

Microchip Technology, Inc

MSOP-8