Real Time Clock Serial Clock/Calendar/Elapsed Time Counter/Watchdog Timekeeper 10-Pin uMAX

Manufacturer:	Maxim Integrated
Package/Case:	MSOP10
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The DS1374 is a 32-bit binary counter designed to continuously count time in seconds. An additional counter generates a periodic alarm or serves as a watchdog timer. If disabled, this counter can be used as 3 bytes of nonvolatile (NV) RAM. Separate output pins are provided for an interrupt and a square wave at one of four selectable frequencies. A precision temperature-compensated reference and comparator circuit monitor the status of VCC to detect power failures, provide a reset output, and automatically switch to the backup supply when necessary. Additionally, the reset pin is monitored as a pushbutton input for externally generating a reset. The device is programmed serially through an I2C serial interface.

Key Features

Supply voltage range is 2.97V to 5.5V

Operating temperature range from -40°C to 85°C

Single pin pushbutton reset input/open-drain reset output

Automatic power-fail detect and switch circuitry

UL recognized

Application

Medical Equipment

Point-of-Sale Equipment

Portable Instrumentation

Telecommunications

Recommended For You

DS1023-500

Maxim Integrated

SOP16

DS1243Y-120+

Maxim Integrated

DIP

DS1023S-50+

Maxim Integrated

SOIC16

DS12887+

Maxim Integrated

DIP

DS1308U-33+T

Maxim Integrated

MSOP8

DS1337S+

Maxim Integrated

SOP8

DS1023S-50

Maxim Integrated

SOP16

DS1746-70+

Maxim Integrated

DIP

DS1338C-33#

Maxim Integrated

SOP16

DS1558Y+

Maxim Integrated

48-LQFP

DS1000-25

Maxim Integrated

DIP-14

DS1375T+T&R

Maxim Integrated

TDFN-6

DS1306E+T&R

Maxim Integrated

TSSOP

DS1000K-100

Maxim Integrated

DIP

DS1744-70+

Maxim Integrated

DIP

AVAQ SEMICONDUCTOR CO., LIMITED