

Real Time Clock Phantom Clock/Parallel 8Kbyte Clock/Calendar/NV Timekeeping RAM 28-Pin EDIP



Images are for reference only

Manufacturer: [Maxim Integrated](#)

Package/Case: DIP

Product Type: Clock & Timer ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The DS1243Y 64K NV SRAM with Phantom Clock is a fully static nonvolatile RAM (organized as 8192 words by 8 bits) with a built-in real time clock. The DS1243Y has a self-contained lithium energy source and control circuitry, which constantly monitors V_{CC} for an out-of-tolerance condition. When such a condition occurs, the lithium energy source is automatically switched on and write protection is unconditionally enabled to prevent corrupted data in both the memory and real time clock. The Phantom Clock provides timekeeping information including hundredths of seconds, seconds, minutes, hours, day, date, month, and year information. The date at the end of the month is automatically adjusted for months with fewer than 31 days, including correction for leap years. The Phantom Clock operates in either 24-hour or 12-hour format with an AM/PM indicator.

Key Features

Supply voltage range is 4.5V to 5.5V

Operating temperature range from 0°C to 70°C

8K x 8 NV SRAM directly replaces volatile static RAM or EEPROM

Read cycle time and access time is 120ns

Embedded lithium energy cell maintains calendar operation and retains RAM data

Watch function is transparent to RAM operation

Automatic leap year compensation valid up to 2100

Over 10 years of data retention in the absence of power

Lithium energy source is disconnected to retain freshness until power is applied for the first time

UL recognized



Recommended For You

DS1023-500

Maxim Integrated

SOP16

DS1374U-33+

Maxim Integrated

MSOP10

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