

Real Time Clock Parallel 8Kbyte Clock/Calendar/NV Timekeeping RAM/Battery Backup 28-Pin PCDIP Tube



Images are for reference only

Manufacturer: [STMicroelectronics, Inc](#)

Package/Case: DIP

Product Type: Clock & Timer ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The M48T08/18/08Y TIMEKEEPERRAM is an 8 K x 8 non-volatile static RAM and real-time clock which is pin and function compatible with the DS1643. The monolithic chip is available in two special packages to provide a highly integrated battery-backed memory and real-time clock solution. The M48T08/18/08Y is a non-volatile pin and function equivalent to any JEDEC standard 8 K x 8 SRAM. It also easily fits into many ROM, EPROM, and EEPROM sockets, providing the non-volatility of PROMs without any requirement for special WRITE timing or limitations on the number of WRITES that can be performed. The 28-pin, 600 mil DIP CAPHAT houses the M48T08/18/08Y silicon with a quartz crystal and a long-life lithium button cell in a single package. The 28-pin, 330 mil SOIC provides sockets with gold-plated contacts at both ends for direct connection to a separate SNAPHAT housing containing the battery and crystal. The unique design allows the SNAPHATbattery package to be mounted on top of the SOIC package after the completion of the surface mount process. Insertion of the SNAPHATHousing after reflow prevents potential battery and crystal damage due to the high temperatures required for device surface-mounting. The SNAPHATHousing is keyed to prevent reverse insertion. The SOIC and battery/crystal packages are shipped separately in plastic anti-static tubes or in tape & reel form. For the 28-lead SOIC, the battery/crystal package (e.g., SNAPHAT) part number is "M4T28-BR12SH" or "M4T32-BR12SH".

Key Features

Integrated ultra low power SRAM, real time clock, power fail control circuit and battery

BYTEWIDE RAM like clock access

BCD coded year, month, day, date, hours, minutes and seconds

Typical clock accuracy of ± 1 minute a month at 25°C

Automatic power fail chip deselect and WRITE protection

Features WRITE protect

Supply voltage range from 4.75V to 5.5V

Software controlled clock calibration for high accuracy applications

Ambient operating temperature range from 0°C to 70°C



Recommended For You

M41T62LC6F

STMicroelectronics, Inc
CLCC8

M48T35Y-70PC1

STMicroelectronics, Inc
DIP

M48T18-150PC1

STMicroelectronics, Inc
DIP

M48T58Y-70PC1

STMicroelectronics, Inc
DIP

M48T08-150PC1

STMicroelectronics, Inc
DIP

M41ST85WMH6F

STMicroelectronics, Inc
SOP28

M41ST85WMX6TR

STMicroelectronics, Inc
SOP28

M48T58-70PC1

STMicroelectronics, Inc
DIP

M41ST87WMX6TR

STMicroelectronics, Inc
SOP28

M48T12-150PC1

STMicroelectronics, Inc
DIP

M41T93SMY6F

STMicroelectronics, Inc
SOP18

M41T66Q6F

STMicroelectronics, Inc
QFN16

M41T94MQ6F

STMicroelectronics, Inc
SOP16

M41T62Q6F

STMicroelectronics, Inc
QFN16

M41T94MH6F

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