

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 M48T58/Y TIMEKEEPERRAM is a 8 Kb x 8 non-volatile static RAM and real-time clock. The monolithic chip is available in two special packages to provide a highly integrated battery-backed memory and real-time clock solution.

The M48T58/Y is a non-volatile pin and function equivalent to any JEDEC standard 8b Kb 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 CAPHATHouses the M48T58/Y 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 SNAPHATHousing containing the battery and crystal. The unique design allows the SNAPHAT battery package to be mounted on top of the SOIC package after the completion of the surface mount process. Insertion of the SNAPHAT housing after reflow prevents potential battery and crystal damage due to the high temperatures required for device surface-mounting. The SNAPHAT housing 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".

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

Frequency test output for real-time clock

Automatic power-fail chip deselect and WRITE protection

WRITE protect voltage

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

M48T08-100PC1

STMicroelectronics, Inc

DIP

M41ST85WMX6TR

STMicroelectronics, Inc

SOP28

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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