M48T86

5V PC REAL TIME CLOCK

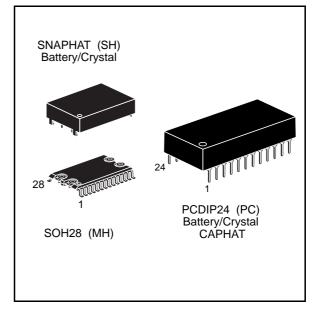
DATA BRIEFING

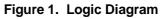
- DROP-IN REPLACEMENT for PC COMPUTER CLOCK/CALENDAR
- COUNTS SECONDS, MINUTES, HOURS, DAYS, DAY of the WEEK, DATE, MONTH and YEAR with LEAP YEAR COMPENSATION
- INTERFACED WITH SOFTWARE AS 128 RAM LOCATIONS:
 - 14 Bytes of Clock and Control Registers
 - 114 Bytes of General Purpose RAM
- SELECTABLE BUS TIMING (Intel/Motorola)
- THREE INTERRUPTS are SEPARATELY SOFTWARE-MASKABLE and TESTABLE
 - Time-of-Day Alarm (Once/Second to Once/Day)
 - Periodic Rates from 122µs to 500ms
 - End-of-Clock Update Cycle
- PROGRAMMABLE SQUARE WAVE OUTPUT
- SELF-CONTAINED BATTERY and CRYSTAL in the CAPHAT DIP PACKAGE
- PACKAGING INCLUDES a 28-LEAD SOIC and SNAPHAT[®] TOP (to be Ordered Separately)
- SOIC PACKAGE PROVIDES DIRECT CONNECTION for a SNAPHAT TOP CONTAINS the BATTERY and CRYSTAL
- PIN and FUNCTION COMPATIBLE with bq3285/7A and DS128887

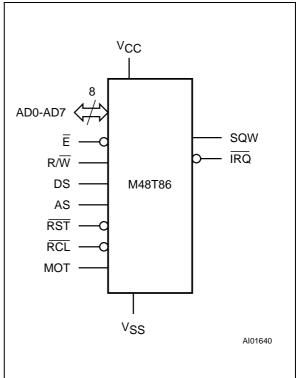
DESCRIPTION

The M48T86 is an industry standard real time clock (RTC). The M48T86 is composed of a lithium energy source, quartz crystal, write-protection circuitry, and a 128 byte RAM array. This provides the user with a complete subsystem packaged in either a 24-pin DIP CAPHAT or 28-pin SNAPHAT SOIC. Functions available to the user include a non-volatile time-of-day clock, alarm interrupts, a one-hundred-year clock with programmable interrupts, square wave output, and 128 bytes of non-volatile static RAM.

The 24 pin 600mil DIP CAPHAT[™] houses the M48T86 silicon with a quartz crystal and a long life lithium button cell in a single package.



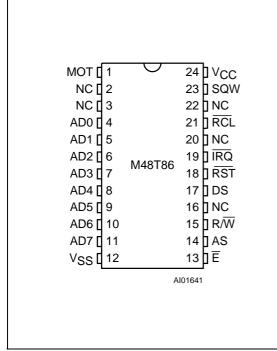




B48T86/811

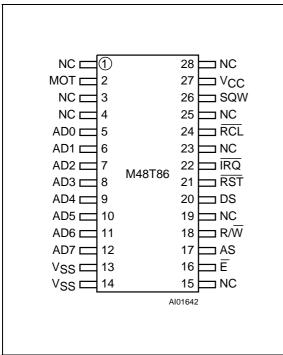
Complete data available on DATA-on-DISC CD-ROM or at www.st.com

DIP Pin Connections



Warning: NC = Not Connected.

SOIC Pin Connections



Warning: NC = Not Connected.

Signal Names

AD0-AD7	Multiplexed Address/Data Bus
Ē	Chip Enable Input
R/W	Write Enable Input
DS	Data Strobe Input
AS	Address Strobe Input
RST	Reset Input
RCL	RAM Clear Input
МОТ	Bus Type Select Input
SQW	Square Wave Output
ĪRQ	Interrupt Request Output
V _{CC}	Supply Voltage
V _{SS}	Ground

Ordering Information Scheme

For a list of available options or for further information on any aspect of this device, please contact the STMicroelectronics Sales Office nearest to you.

