CARDINAL COMPONENTS

Real Time Clock

Applications:

Cash Registers Security Access Controllers, Door Controllers Time Recorders Public Phone Bill Meter, Smart Card Payphone IC Water-Flow Meters IC Gas Meters Mobile Telephones



C8563

Series

Part Numbering Example: C8563–Z3C

C8563-	Z	3	С
SERIES	ADDED FEATURES	PACKAGE	OPERATING TEMP
C8563	Z = Tapes & Reels	3 = DIP	$C = 0^{\circ}C$ to +70°C
		4 = SOIC	I = -40°C to +85°C
		5 = TSSOP	

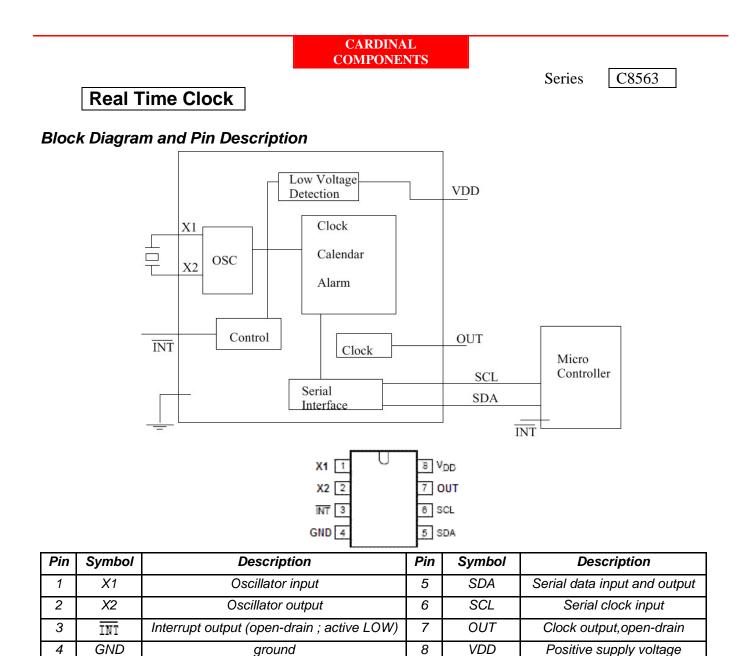
Specifications

- Provides Year, Month, Day, Weekday, Hours, Minutes, and Seconds Information
- Century Flag
- Wide Operating Voltage: 1.8V to 5.5V
- Low Power Consumption: 0.25µA at VDD = 3.0V
- I²C-bus interface
- Programmable Clock Output (32.768 kHz, 1024 Hz, 32 Hz, and 1Hz)
- Alarm and Timer Functions
- Built-in Power Voltage Detecting Circuit
- I²C-bus Slave Address: Read A3H and write A2H
- Open-Drain Interrupt Pin

General Description

The C8563 is a CMOS real time clock/calendar, which provides a programmable clock output, a timer, an alarm, and a voltage-low detector. All address and data are transferred serially via I²C bus and the C8563 operates as a slave device on the serial bus. The built-in word address register is incremented automatically after each written or read data byte. The C8563 is designed to operate on very low power consumption.





Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage	Vdd	-0.5	+6.5	V
Supply Current	loo	-0.5	+50	mA
Input Voltage on pins SCL and SDA	Vı	-0.5	+6.5	V
Input Voltage on pin OSCI		-0.5	Vdd+0.5	V
Output Voltage on OUT and $\overline{\mathrm{INT}}$	Vo	-0.5	+6.5	V
DC input current at any input	h	-10	+10	mA
DC output current at any output	lo	-10	+10	mA
Total power dissipation	Р		300	mW
Ambient temperature	Та	-40	+85	°C
Storage temperature	Ts	-65	+150	°C



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