

Real Time Clock Serial Clock/Calendar/Alarm/Battery Backup Automotive 8-Pin SOIC N Tube



Images are for reference only

Manufacturer: [Renesas Technology Corp](#)

Package/Case: SOP8

Product Type: Clock & Timer ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The ISL12008 device is a low power real time clock/calendar that is pin compatible and functionally equivalent to the ST M41T00S and Maxim DS1340 with timing and crystal compensation. The device additionally provides power-fail indicator, software alarm and intelligent battery backup. The oscillator uses an external, low-cost 32.768kHz crystal. The real time clock tracks time with separate registers for hours, minutes, and seconds. The device has calendar registers for date, month, year and day of the week. The calendar is accurate through 2099, with automatic leap year correction.

Key Features

Pin Compatible to ST M41T00S and Maxim DS1340

Functionality Equivalent to ST M41T00S and Maxim DS1340

Real Time Clock/Calendar

Tracks Time in Hours, Minutes, Seconds and Sub-seconds

Day of the Week, Day, Month, and Year

512Hz Frequency Outputs for On-Chip Crystal Compensation

Software Alarm

Settable to the Second, Minute, Hour, Day of the Week, Day, or Month

Automatic Low-Drop Battery Switch for Longest Backup Life

Power Failure Detection

Battery ReSeal™ for Long Shelf Life

I2C Bus™

400kHz Data Transfer Rate

800nA Battery Supply Current

Small Package Option

8 Ld SOIC

Pb-Free (RoHS Compliant)

Recommended For You

ISL1208IB8Z-TK

Renesas Technology Corp

SOP8

ISL12026IBZ-T

Renesas Technology Corp

SOP8

ISL1208IU8Z-TK

Renesas Technology Corp

MSOP8

ISL1208IB8

Renesas Technology Corp

SOP-8

ISL12022MBZ-T

Renesas Technology Corp

SOP20

ISL12057IBZ-T

Renesas Technology Corp

SOP8

ISL1208IU8Z

Renesas Technology Corp

MSOP8

ISL12028IBZ-T

Renesas Technology Corp

SOIC-14

IS82C85

Renesas Technology Corp

PLCC

IS82C54-10Z96

Renesas Technology Corp

PLCC-28

ISL12021CVZ

Renesas Technology Corp

TSSOP-14P

ISL1208IU8

Renesas Technology Corp

MSOP8

ISL1208IU8Z-T7A

Renesas Technology Corp

MSOP8

ISL1220IUZ-T

Renesas Technology Corp

MSOP10

ISL12028IV27Z-T

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TSOP