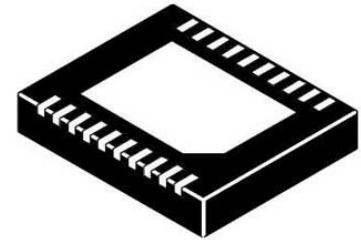


Real Time Clock REAL TIME CLOCK AND TMP COMP CRYSTL INLD

Manufacturers	Renesas Technology Corp
Package/Case	DFN-20
Product Type	Clock & Timer ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ISL12020MIRZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Low Power RTC with Battery Backed SRAM, Integrated ± 5 ppm Temperature Compensation and Auto Daylight Saving ISL12020M The ISL12020M device is a low power Real Time Clock (RTC) with an embedded temperature sensor and crystal. Device functions include oscillator compensation, clock/calendar, power fail and low battery monitors, brownout indicator, one-time, periodic or polled alarms, intelligent battery backup switching, Battery Reseal™ function and 128 bytes of battery-backed user SRAM. The device is offered in a 20 Ld DFN module that contains the RTC and an embedded 32.768kHz quartz crystal. The calibrated oscillator provides less than ± 5 ppm drift across the 0°C to +85°C temperature range. The RTC tracks time with separate registers for hours, minutes and seconds. The calendar registers track date, month, year and day of the week and are accurate through 2099, with automatic leap year correction. Daylight Savings time adjustment is done automatically, using parameters entered by the user. Power fail and battery monitors offer user-selectable trip levels. The time stamp function records the time and date of switchover from VDD to VBAT power and also from VBAT to VDD power.

Features

Embedded 32.768kHz quartz crystal in the package

20 Ld DFN package (for SOIC version, refer to the ISL12022M)

Calendar

On-chip oscillator temperature compensation

10-bit digital temperature sensor output

15 selectable frequency outputs

Interrupt for alarm or 15 selectable frequency outputs

Automatic backup to battery or supercapacitor

V_{DD} and battery status monitors

Battery Reseal™ function to extend battery shelf life

Power status brownout monitor

Time stamp for battery switchover

128 Bytes battery-backed user SRAM

I²C-Bus™

RoHS compliant

Related Products



[IS82C54-10Z](#)

Renesas Technology Corp
PDIP-28



[ISL12022IBZ](#)

Renesas Technology Corp
SOP-8



[IS82C54Z](#)

Renesas Technology Corp
PLCC-28



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[ISL12026IBZ](#)

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PLCC28