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High-Stability I²C-Bus Interface Real-time Clock Module

1 Features

- Built-in 32,768KHz DTCXO with high stability
- Supports I²C-Bus's high speed mode (400KHz)
- Timing alarm function (can be set: date, week, hour, minute)
- Fixed-cycle Timer Interrupt Function
- Clock update interrupt function (seconds, minutes)
- 32.768KHz clock output with OE function (FOE and FOUT pins)
- Auto correction of leap years (from 2000 to 2099)
- Wide interface voltage range: 1.6 V to 5.5 V
- Wide time-keeping voltage range: 1.2 V to 5.5 V
- Low current consumption: 0.8 μA/3 V (TYP)
- · Package Information:

PART NUMBER	PACKAGE	BODY SIZE	
GX8025T	LGA14	6.00 × 8.50	

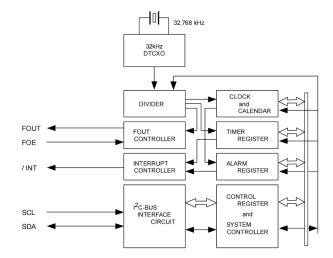
2 Applications

- IoT devices
- Electric power sector
- Smart card
- Medical equipment
- Financial Transaction

3 Description

This module is an I²C bus interface-compliant real-time clock which includes a 32.768KHz DTCXO that has been adjusted for high precision. In addition to providing a calendar (year, month, day, week, hour, minute, second) and a clock counter function, this module provides additional functions including an alarm function, fixed-cycle timer function, time update interrupt function and 32.768KHz output function. The module is fabricated via a C-MOS process for low current consumption and longer battery life.

GX8025T Internal Schematic Diagram





13 Ordering Information

Order Number	Chip Model	Package	Standard Quantity	Note
GX8025T-T&R	GX8025T	LGA14	Undetermined	Sample

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