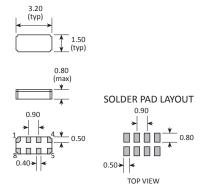
Real Time Clock, Ultra Low Power







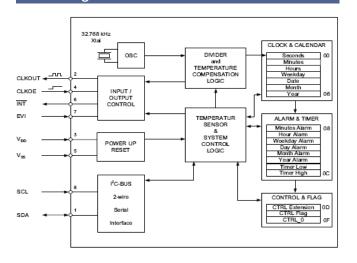


PAD	CONNECTION	PAD	CONNECTION
1	Serial data (SDA)	5	Ground (VSS)
2	Frequency output (CLKOUT)	6	Interrupt output (INT)
3	Supply voltage (VDD)	7	Event input (EVI)
4	Clock output enable (CLKOE)	8	Serial clock input (SCL)

Features

- High accuracy, ultra low power
- Built-in crystal for adjustment-free operation
- Time stamp event input function
- I²C-Bus interface (up to 400kHz)
- Programmable alarm, timer and interrupt

Block Diagram



Specifications

Parameters	Product	Option		
	RV8803C7	Codes		
Frequencies (selectable): 32.768kHz, 1024Hz, 1Hz				
Frequency tolerance (1Hz): ±3ppm max, -40+85°C				
Frequency tolerance (32.768kHz): ±10ppm typ, ±20ppm max, 25°C				
Time accuracy: ±1.5ppm max (0.13s/day), 0+50°C ±3ppm max (0.26s/day), -40+85°C				
Turnover temperature (T ₀): +25°C ±5°C				
Frequency / temp coefficient: -0.035ppm/°C²±10%				
Operating temperature range: -40 to +85°C				
Storage temperature range: -55 to +125°C				
Supply voltage (V _{DD}): 1.5 ~ 5.5V				
Supply current: 240/400nA typ/max, V _{DD} =3V				
Ageing (25°C): ±3ppm max first year	•			
Shock and vibration resistance: ±5ppm, 5,000g, 0.3ms, ½ sine ±5ppm, 20g, 10.0 ~ 2,000Hz	:			
Soldering condition: Reflow, 260°C, 20 sec max				

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Product code

ie: RV8803C7

Option code X (eg RV8803C7/X) denotes a custom spec.

- Available on T&R 1k or 3k pcs per reel.
- Evaluation / development board & manual available on request
- The I²C-Bus is a trademark of Philips Electronics NV

Description

The RV8803C7 is an high accuracy, ultra low power Real-Time-Clock module with embedded 32.768 kHz Crystal. High accuracy, high stability is achieved by factory calibrated, temperature compensated DTCXO giving time-accuracy of ± 3.0 ppm accross the temperature range from -40°C to +85°C. Standard Clock & Calendar function tracks second, minute, hour in 24-hour format, year and leap-year flags. Beside standard RTC functions like Timer & Alarm, it includes integrated Temperature Sensor, Time Stamp Event Input and User RAM and offers I2C-bus (2-wire Interface). RV-8803-C7 is the smallest sized and consumes the lowest current of all temperature compensated RTC modules.



- Manufactured by Micro Crystal
- Stocked & distributed by Golledge



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