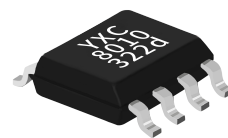


Real Time Clock Module (I²C-BUS)

YSN8010

Low current consumption

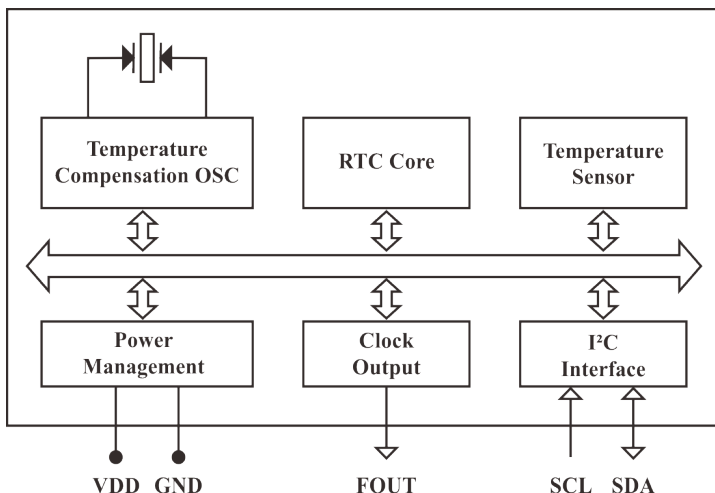


YSN8010SJ (SOP-8)

Overview

- Low Current Consumption: 1.0uA (Typ.)
- High Stability:
 - ±20ppm @ -20 ~ +70
 - ±50ppm @ -40 ~ +85
- Communication Interface: I2C bus
- Power Supply Voltage: 1.6V~5.5V
- Operation Temperature Range: -40 ~ +85
- Leap Years Autocorrection
- Build-in XO: 32.768kHz
- Build-in Temperature Sensor
- Package: 4.9mm × 6.0mm × 1.6mm(SOP-8)

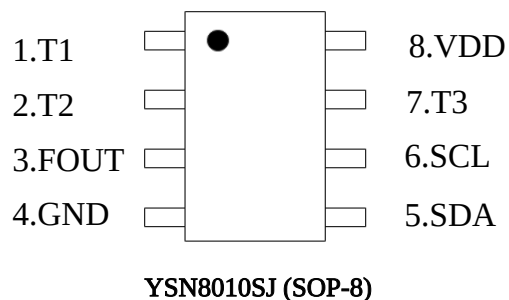
Block diagram



Pin Fuction

Pin	PinName	I/O	Description
1	T1	/	Manufacturer test only.Ensure to be floating
2	T2	/	Manufacturer test only.
3	FOUT	Out	Frequency output Pin,configurable,CMOS.
4	GND	/	Ground
5	SDA	In/Out	I2C data signal
6	SCL	In	I2C clock signal
7	T3	/	Manufacturer test only.Ensure to be floating
8	VDD		Power in

Terminal Connection



YSN8010SJ (SOP-8)

Specifications (Characteristics)

Parameter	Symbol	Value			Unit	Remarks	
		Min.	Typ.	Max.			
Power Supply Voltage (Normal mode)	VDD	2.5	3.0	5.5	V	/	
Power Supply Voltage(Time keeping)	VDD	1.6	3.0	5.5	V	/	
Operation Temperature	TOPR	-40	25	85	°C	/	
Frequency stability	$\Delta f/f$	±20			PPM	@-20°C~70°C, VDD=3.0V;	
		±50			PPM	@-40°C~85°C, VDD=3.0V;	
Oscillation start time	t _{STA}			1	S	@25°C	
Year Aging	f _a			±3	PPM	First year@25°C	
Average Current1	IDD1		1.25	5.1	μA	VDD=5.0V	fSCL=0Hz,SCL and SDA are low.
Average Current1	IDD2		1	4.9		VDD=3.0V	

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