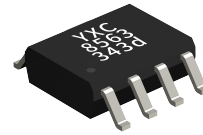
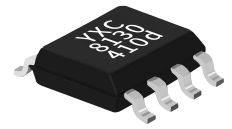


Realtime Clock Module (I²C-BUS)

YSN8563



YSN8563S (SOP-8)

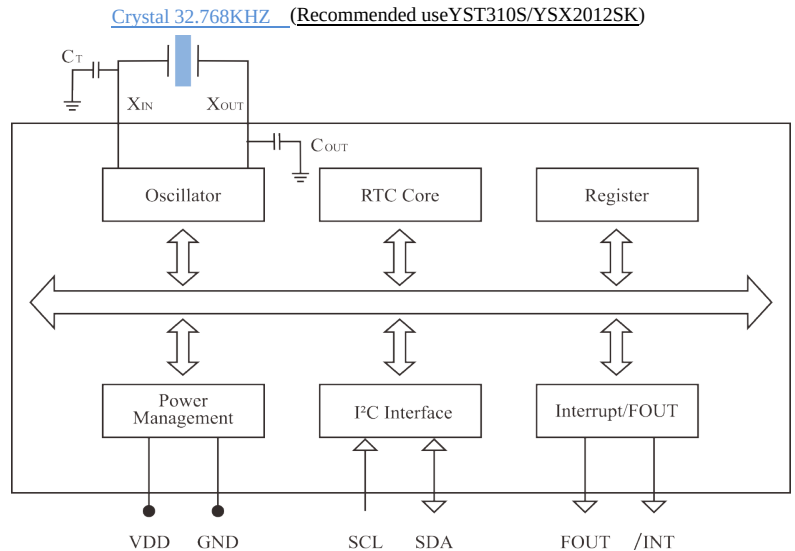


YSN8563TS (TSSOP-8)

Overview

- Lowcurrent consumption:0.9uA(Typ.)
- Communicationinterface: I²C-bus
- Alarm, Timerand Interruption
- Frequency output
- External 32K Crystal
- Integrated oscillator capacitors
- Power supply voltage: 1.2V ~ 5.5V
- Leap yearsautocorrection
- Operation temperature range: -40 ~ +85
- Package: 4.9*6.0 *1.6mm(SOP8)
Package: 3.0 * 4.9 * 1.1mm (TSSOP8)
- RoHS2.0 & REACH Compliant

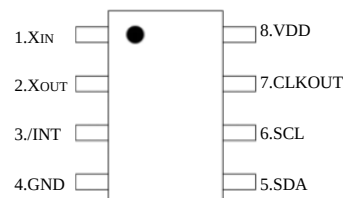
Block Diagram



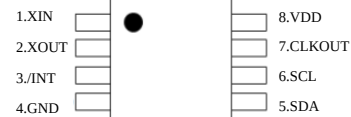
Pin Function

Pin	PinName	I/O	Description
1	XN		Oscillator Input,must connect an 8pF-25pF capacitor for trimming.
2	XOUT		Oscillator Output
3	/INT	Out	Alarm, TimerOutput. (Open-Drain)
4	GND		Ground
5	SDA	In/Out	I2C data signal
6	SCL	In	I2C clock signal
7	CLKOUT	Out	Frequency Output (Open-Drain)
8	VDD		Power in

Terminal Connection



YSN8563S (SOP-8)



YSN8563TS (TSSOP-8)

Specifications (Characteristics)

Parameter	Symbol	Value			Unit	Remarks	
		Min.	Typ.	Max.			
Power Supply Voltage (Normal mode)	VDD	1.6	3.0	5.5	V	/	
Power Supply Voltage(Time keeping)	VDD	1.2	3.0	5.5	V	/	
Operation Temperature	TOPR	-40	25	85	°C	/	
Average Current1	IDD1		1.0	3	μA	VDD=5.0V	fscL=0 Hz/INT=OFF, FOUT=OFF,SDA=" L ",SCL=" L "
Average Current2	IDD2		0.9	2.8		VDD=3.0V	
Average Current3	IDD3		1.9	3.8		VDD=5.0V	FOUT=32.768KHz (CL=15PF),/INT=OFF SDA=" L " SCL=" L "
Average Current4	IDD4		1.7	3.5		VDD=3.0V	

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