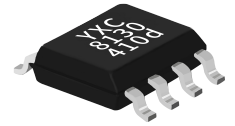
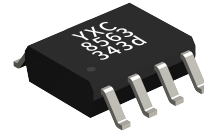


Realtime Clock Module (I²C-BUS)

YSN8563



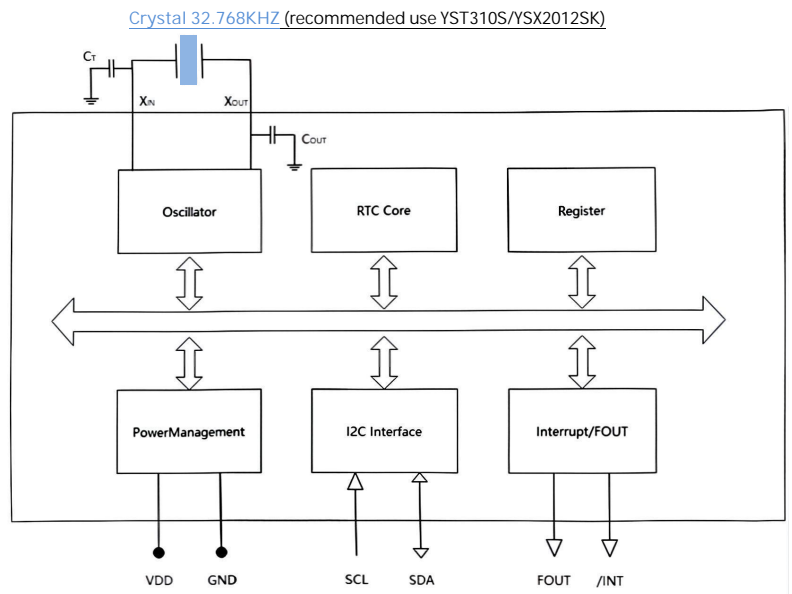
YSN8563TS (SOP-8)

YSN8563S (TSSOP-8)

Overview

- Low current consumption:0.9uA(Typ.)
- Communication interface: I²C-bus
- Alarm, Timer and Interruption
- Frequency output
- External 32K Crystal
- Integrated oscillator capacitors
- Power supply voltage: 1.2V ~ 5.5V
- Leap years autocorrection
- Operation temperature range: -40 ~ +85
- Package: 4.9*6.0 *1.6mm(SOP8)
- Package: 3.0 * 4.9 * 1.1mm (TSSOP8)
- RoHS 2.0 & REACH Compliant

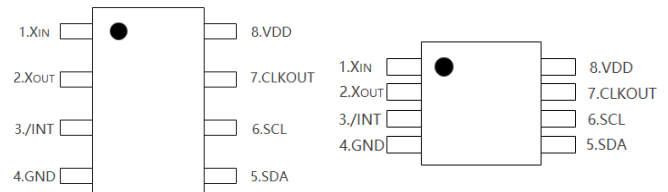
Block Diagram



Pin Function

Pin	PinName	VO	Description
1	XN		Oscillator Input,must connect an 8pf-25pf capacitor for trimming.
2	Xour		OscillatorOutput
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



YSN8563TS (SOP-8)

YSN8563S (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	3.0	μA	VDD=5.0V fscL=0 Hz,/INT=OFF,
Average Current2	IDD2		0.9	2.8		VDD=3.0V FOUT=OFF,SDA=" L" ,SCL=" L"
Average Current3	IDD3		1.9	3.8		VDD=5.0V FOUT=32.768KHz
Average Current4	IDD4		1.7	3.5		(CL=15PF),/INT=OFF SDA=" L" ,SCL=" L"