

**FEATURES**

Digitally programmable frequency and phase  
 12.65 mW power consumption at 3 V  
 0 MHz to 12.5 MHz output frequency range  
 28-bit resolution: 0.1 Hz at 25 MHz reference clock  
 Sinusoidal, triangular, and square wave outputs  
 2.3 V to 5.5 V power supply  
 No external components required  
 3-wire SPI interface  
 Extended temperature range:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
 Power-down option  
 10-lead MSOP package  
 Qualified for automotive applications

**APPLICATIONS**

Frequency stimulus/waveform generation  
 Liquid and gas flow measurement  
 Sensory applications: proximity, motion,  
 and defect detection  
 Line loss/attenuation  
 Test and medical equipment  
 Sweep/clock generators  
 Time domain reflectometry (TDR) applications

**GENERAL DESCRIPTION**

The AD9833 is a low power, programmable waveform generator capable of producing sine, triangular, and square wave outputs. Waveform generation is required in various types of sensing, actuation, and time domain reflectometry (TDR) applications. The output frequency and phase are software programmable, allowing easy tuning. No external components are needed. The frequency registers are 28 bits wide: with a 25 MHz clock rate, resolution of 0.1 Hz can be achieved; with a 1 MHz clock rate, the AD9833 can be tuned to 0.004 Hz resolution.

The AD9833 is written to via a 3-wire serial interface. This serial interface operates at clock rates up to 40 MHz and is compatible with DSP and microcontroller standards. The device operates with a power supply from 2.3 V to 5.5 V.

The AD9833 has a power-down function (SLEEP). This function allows sections of the device that are not being used to be powered down, thus minimizing the current consumption of the part. For example, the DAC can be powered down when a clock output is being generated.

The AD9833 is available in a 10-lead MSOP package.

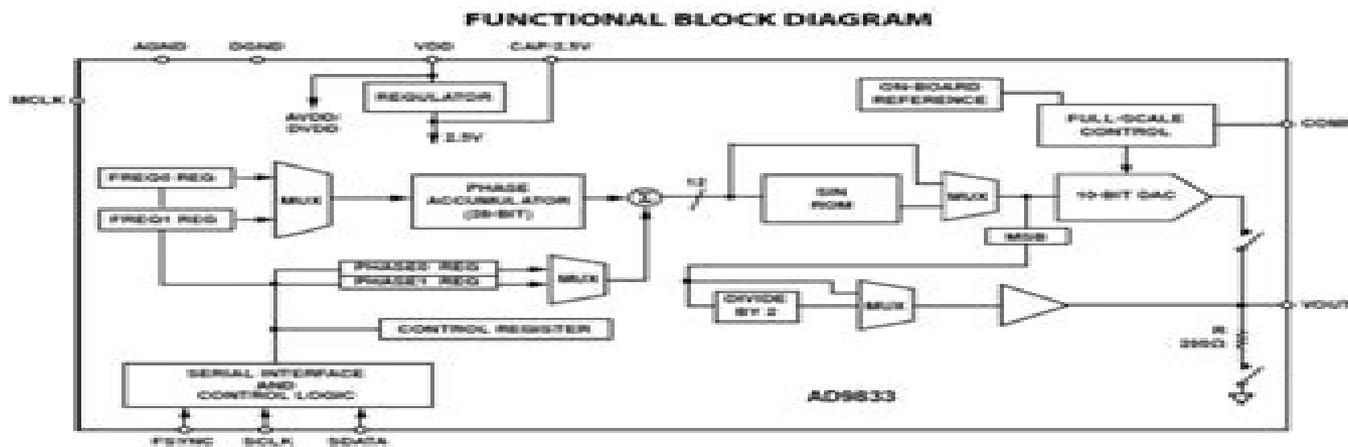


Figure 1.

Rev. E

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# Ad9833 Pdf Analog Devices

**Tao Wei**



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