



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**FEATURES**

- ±120 g full-scale range**
- 12-bit resolution at 62.5 mg/LSB**
- 512 kHz data interpolation rate**
- Sensor frequency response down to dc**
- On-demand electromechanical self-test**
- Fully differential circuitry for high resistance to EMI/RFI**
- Independent x- and y-axis sense structures for robust FMEA performance**
- Independent x- and y-axis arming thresholds**
- Low noise: 1 LSB rms typical**
- Qualified for automotive applications**
- Temperature range: -40°C to +105°C**
- 3.3 V and 5 V operation**

**APPLICATIONS**

- Impact sensing**
- Shock detection**

**GENERAL DESCRIPTION**

The **ADXL288** is a dual-axis accelerometer with signal-conditioned outputs available via a 16-bit SPI interface. Identical, independent X and Y sense structures are implemented to create a high performance, high integrity acceleration sensing system.

The X and Y acceleration channels have a nominal full-scale range of ±120 g and a bandwidth of 408 Hz. The acceleration data is provided as a 12-bit, twos complement word with a resolution of 62.5 mg/LSB.

The **ADXL288** is available in a 16-lead, narrow-body SOIC package with an exposed pad. The **ADXL288** can operate at 3.3 V and 5 V and is specified for operation from -40°C to +105°C.

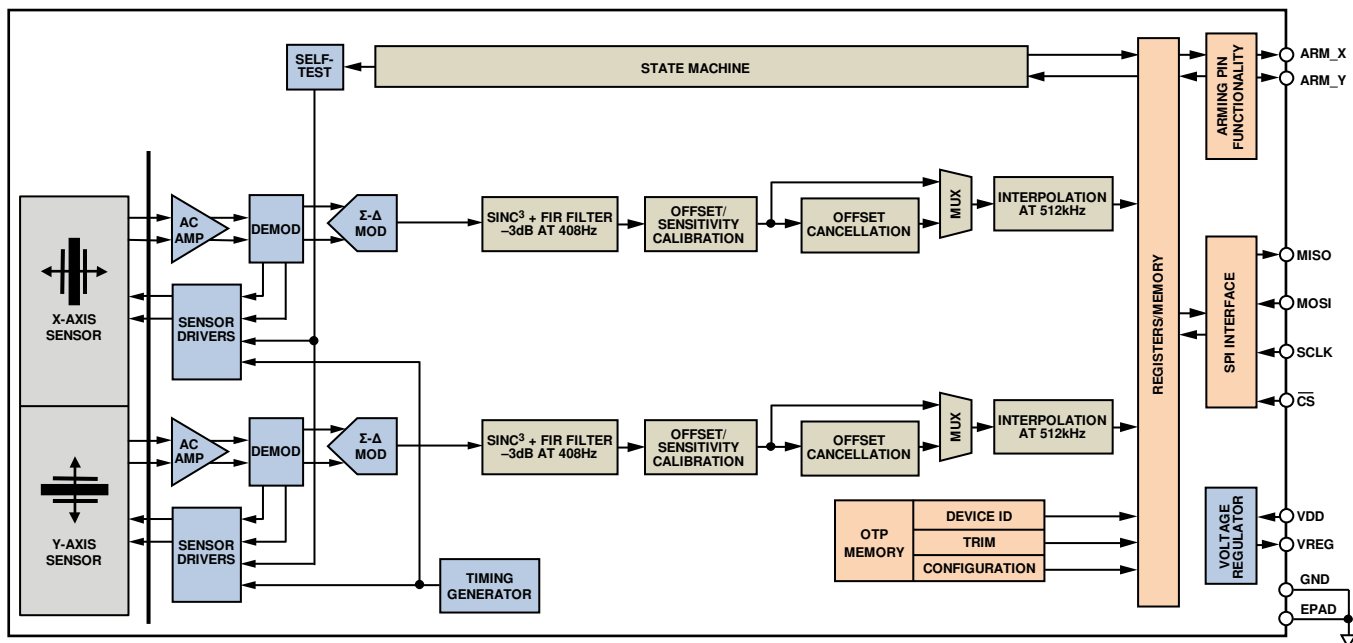
**FUNCTIONAL BLOCK DIAGRAM**


Figure 1.

For more information about the **ADXL288**, please contact the Analog Devices, Inc., [Customer Interaction Center](http://www.analog.com/en/content/technical_support_page/fca.html) at [http://www.analog.com/en/content/technical\\_support\\_page/fca.html](http://www.analog.com/en/content/technical_support_page/fca.html) to connect with a technical support specialist.

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**NOTES**