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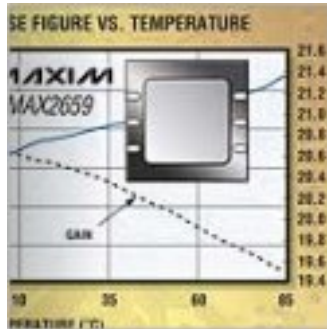
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Crystal Bridge to the Future

GainSpan

Industry's Highest Gain, Lowest Noise-Figure SiGe BiCMOS LNA for GPS, Galileo, & GLONASS applications



The MAX2659 is a high-gain, low-noise amplifier (LNA) for GPS, Galileo, and GLONASS applications. It achieves a very high 20.5dB gain and an ultra-low noise figure of 0.8dB while maximizing the input-referred 1dB compression point and third-order intercept point at -12dBm and -2dBm, respectively. Maxim's proprietary high-speed, high-performance SiGe BiCMOS process and proprietary design techniques enable this GPS LNA to achieve the industry's highest gain and lowest NF for this process.

The MAX2659 is ideal for low-cost consumer applications such as automotive navigation, asset tracking, cellular handsets, portable navigation devices (PNDs), digital cameras, laptops, and ultra-mobile personal computers (UMPCs). The MAX2659 operates from a +1.6V to +3.3V single supply and consumes only 4mA. To further maximize battery life, it reduces the supply current to less than 1µA in shutdown mode. Available in a tiny, 1.5mm x 1.0mm x 0.75mm, leadless, 6-pin µDFN package, the MAX2659 is fully specified over the -40°C to +85°C temperature range.

Read more at [Maxim](#)

Omnidirectional tilt and vibration movement sensor

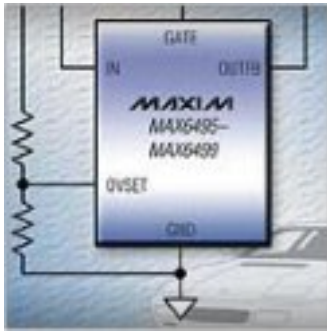


The SQ-SEN-200 series sensor acts like a normally closed switch which chatters open and closed as it is tilted or vibrated. Unlike other ball-tube devices, the 200 is truly an omnidirectional motion sensor. The sensor will produce continuous on-off contact closures when in motion. When at rest, it normally settles in a closed state. It is sensitive to both tilt (static acceleration) and vibration (dynamic acceleration).

This signal can be used to interrupt (wake up) a microcontroller or can be counted to estimate the amount and duration of activity. The sensor is fully passive, requires no signal conditioning, and can be used in a microcontroller interrupt circuit that draws as little as 0.25µA of continuous current. SQ-SEN sensors have become the industry standard for GPS and RFID tracking applications. These sensors are designed to be extremely low power, consuming virtually no power when at rest and generating a digital output when moved. They are fully passive, require no signal conditioning, and can be used in a triggering circuit that draws as little as 0.25µA of continuous current.

Read more at [Signalquest](#)

Low-Power, High-Voltage Detection/Protection Circuits Operate Up to 72V for High-Voltage Transient Systems



The MAX6495-MAX6499 are overvoltage protection circuits that operate from 5.5V to 72V. Operating as a switch controller, these circuits either shut off or regulate the output voltage during an overvoltage condition. These high-voltage devices allow use of lower input regulators in high-voltage transient systems such as those found in industrial and automotive applications.

The circuits turn off an external n-channel MOSFET with an internal 100mA pulldown current when the monitored voltage exceeds its overvoltage threshold. These low-power devices consume only 20 microamps of quiescent current.

These circuits are suitable for automotive, industrial, and server applications. An internal charge pump on all circuits provides a 10V gate-to-source enhancement to minimize drain-to-source resistance during normal operation.

Read more at [Maxim](#)

You Design it. Let XPort® Connect it to the World.



Looking for the fastest, easiest way to give your products Ethernet connectivity? Look to the XPort embedded device server from Lantronix!

The XPort delivers an innovative solution capable of making virtually any electronic product a smart device. It lets you focus on your core competencies while the experts at Lantronix handle your networking challenges. With XPort, you can cut your design cycle by as much as 80%!

Although it's smaller than your thumb, XPort gives you:

- A complete network-enabling solution in a compact RJ45 package.
- Remote command and control of edge devices.
- An embedded web server.
- Real-time operating system (RTOS) and TCP/IP protocol stack.
- Real-time edge device status via e-mail alerts.
- 256-bit AES encryption for secure communications.
- 10Base-T/100Base-TX Ethernet connectivity.
- EMC/EMI/RoHS compliance.

Read more at [Lantronix](#)

APPLICATION
NOTES

Isolated Temperature Sensor ...

More: http://www.maxim-ic.com/appnotes.cfm/an_pk/4432



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