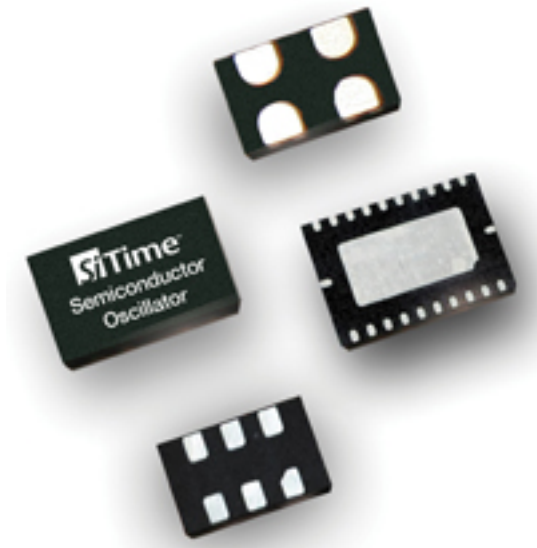


Power Reduction of 66% and Programmable Features are Ideal for Networking, Video, Computing and Storage Applications



SiTime Corporation recently introduced the SiT8004, one of the industry's lowest power high frequency oscillators. The SiT8004 reduces oscillator power consumption by up to 66% and is ideally suited for high performance networking, video, computing and storage applications.

The SiT8004 MEMS-based programmable oscillator features 6.7 mA of typical current consumption at 125 MHz, which is up to 66% lower than that of a standard crystal oscillator. In addition to supporting any frequency between 125 MHz and 150 MHz, it is also available in popular, pre-configured options such as:

- * 125 MHz and 125.00375 MHz for GPON, EPON and Gigabit Ethernet
- * 133 MHz and 133.33333 MHz for MEMORY (DDR) and PCI
- * 148.5 MHz and 148.35164 MHz for HDMI and Pixel clocks
- * 150 MHz for SATA/SAS.

Additionally, the SiT8004 offers the following key features:

- * Ability to configure the device to any custom frequency with 5 decimal places of accuracy, and receive samples within 1 week. Custom frequencies such as 125.00375 MHz (instead of 125 MHz) are used for Gigabit Ethernet to improve Bit Error Rate (BER).

- * Excellent frequency stability, as low as ± 20 PPM that can enhance overall system stability in cloud computing applications.

Power Reduction of 66% and Programmable Features are Ideal for Networking

Published on Wireless Design & Development (<http://www.wirelessdesignmag.com>)

* 100% drop-in replacement of quartz solutions in all four industry-standard surface-mount packages (7.0x5.0 mm, 5.0x3.2 mm, 3.2x2.5 mm and 2.5x2.0 mm)

* Superior robustness with 500 million hours in mean-time-between-failure (MTBF) that is critical to high reliability, fail-safe systems in networking, communication and servers

* Extreme ruggedness that is just not available from quartz. The device exhibits shock resistance of up to 50,000 G and vibration resistance of up to 70 G.

The SiT8004 is available in high volume production today. The list price for 10,000 units of the 125MHz SiT8004 in a 2.5x2.0mm package, 25 PPM stability, industrial temperature range (-40 to +85 °C) is \$0.98.

Please visit www.sitime.com for more information.

Source URL (retrieved on 01/26/2015 - 12:22pm):

http://www.wirelessdesignmag.com/product-releases/2011/03/power-reduction-66-and-programmable-features-are-ideal-networking-video-computing-and-storage-applications?qt-blogs=0&qt-digital_editions=0