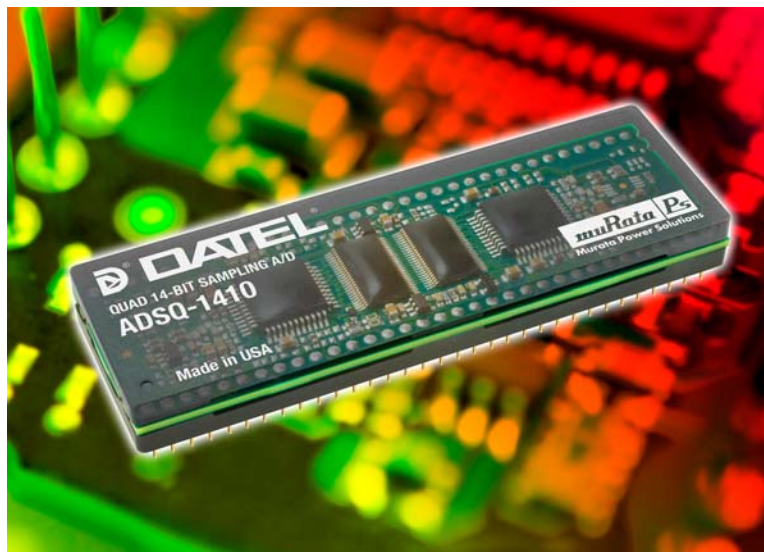


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Murata Power Solutions
www.murata-ps.com

News Release

DATEL Quad Sampling A/D converter combines low noise and excellent dynamic performance for a wide range of image processing applications



- *Functionally complete, quad 14-Bit, 10 MSPS A/D converter*
- *0.5 LSB RMS DC noise with no missing codes*
- *Excellent dynamic performance with SNR of 80dB*
- *Choice of SMT or TDIP through-hole packages*

Murata Power Solutions has introduced a new quad sampling Analog to Digital (A/D) converter for image processing applications where low noise performance and the ability to convert full-scale step input signals at a 10MHz conversion rate is required. The ADSQ-1410 converter builds on a product family that already includes 10 MHz, 14-Bit dual and single A/D products. The ADSQ-1410 is a functionally complete, quad 14-Bit resolution, 10 mega samples per second (MSPS) converter. The new module has excellent dynamic performance (SNR 80dB) making it ideal for both time and multi-channel frequency domain applications.

Typical applications for the 66-pin SMT or TDIP through-hole packaged ADSQ-1410 include medical imaging, radar, sonar, communications and general instrumentation. A 2.5V precision internal reference, along with individual analog input range selection pins, provides ideal tracking over temperature while allowing each channel to be independently configured for an analog input range of $\pm 1V$ to $\pm 2.5V$. The new cost effective, functionally complete modules require only $\pm 5V$ for internal analog supplies and 2V to 5V supply for logic outputs.

The ADSQ-1410 uses a single rising edge triggered start convert signal to control the conversion of all four A/Ds. 2V to 5V digital CMOS outputs are multiplexed into pairs providing two parallel, three-state output buses. Four independent enable control pins offer individual output data and overflow/underflow selection.

Operating temperature range for the ADSQ-1410 is 0°C to +70°C and overall package dimensions are 86.36mm x 27.94mm x 9.91mm (3.4in. x 1.1in. x 0.39in.)

About Murata Power Solutions

Murata Power Solutions (www.murata-ps.com) is headquartered in Mansfield, Massachusetts, with over 1,300 employees, and locations in the USA, Canada, England, France, Germany, Singapore, Japan and China. Murata Power Solutions designs, manufactures and distributes DC/DC Converters, AC/DC Power Supplies, Magnetics, Data Acquisition devices and Panel Meters, and offers these products in custom, standard and modified-standard variations. These products, which are built to exacting requirements in ISO9000:2000-approved facilities, are typically used worldwide within telecommunications, computing, industrial and other high-tech applications.

About Murata

Based in Kyoto Japan, Murata Manufacturing Company Ltd is one of the world's leading providers of ceramic based components, sensors, and AC/DC and DC/DC power solutions. Founded in 1950, the company has over 34,000 employees worldwide, and over \$6.3 billion US in consolidated annual sales (as of March 31, 2008). Everywhere in the world, wherever you can reach, Murata's electronic components are always at work.

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