

Multichannel D/A Converter Drives Productivity in Process Control I/O Systems

Analog Devices, Inc. introduces a multichannel DAC (digital-to-analog converter) with innovative dynamic power control circuitry including ADI's™ leading dc-to-dc switching converters and diagnostic features. This new DAC can enable increased system productivity, while simultaneously lowering power use without affecting safety and reliability. The highly integrated AD5755 data converter is a complete, multichannel control IC (integrated circuit) that incorporates four precision 16-bit DACs with programmable voltage or 4 to 20 mA output drivers, along with dynamic power control. The dynamic power control feature works by continually sensing the load impedance and delivering the required power to the load while minimizing power loss in the rest of the system. This reduces self-heating and temperature elevation. The unparalleled combination of features and performance supports four times more channels than any other integrated converter, enabling up to four times more terminals at twice the performance in a single analog I/O module.

Source URL (retrieved on 01/28/2015 - 11:39am):

http://www.wirelessdesignmag.com/product-releases/2010/11/multichannel-d/converter-drives-productivity-process-control-i/o-systems?qt-most_popular=0&qt-digital_editions=0