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Analog Devices' Non-Volatile Digital Potentiometers Deliver Industry's Highest Bandwidth And Lowest Resistance Tolerance

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (ADI) today introduced a series of non-volatile single-, dual- and quad-channel digital potentiometers (digiPOTs) that improve component matching in industrial and communication control systems by featuring resistance tolerance of ± 1 percent (typ). The 11 new digiPOTs in ADI's AD514x and AD512x series also achieve a 3-MHz bandwidth that is 50 percent higher than the closest competitor, which enables faster system response time. The new devices offer the industry's lowest temperature coefficient performance over the widest temperature range (-40°C to 125°C).

ADI's non-volatile digiPOT series meets a wide range of system-level requirements in single, dual, or quad, 256-tap or 128-tap, SPI or I²C interfaces, leaded and leadless packaging, all featuring 4 kV ESD protection

- Download data sheets, view product pages and request samples
- Watch a video explaining how the problem of amplifier gain linearization can be solved by this digiPOT series
- Find application notes and technical articles about digital potentiometer solutions from ADI:
<http://www.analog.com/digipots>

AD514x and AD512x digiPOTS Key Features:

- Resistor tolerance: ± 1 percent typical for better matching
- Wide bandwidth: 3 MHz for faster system response
- 3-mm x 3-mm LFCSP package option for board savings
- Low temperature coefficient: 35 ppm/ $^{\circ}\text{C}$ over an extended temperature range

Pricing, Availability and Complementary Products

Product	Sample Availability	Channel	Tap	Interface	Price Each In 1,000 Quantities	Packaging
AD5144	Yes	Quad	256	SPI/I ² C	\$2.90	24-lead LFCSP/ 20-lead TSSOP
AD5144A	Yes	Quad	256	I ² C	\$2.90	20-lead TSSOP
AD5124	Yes	Quad	128	SPI/I ² C	\$2.50	24-lead LFCSP/ 20-lead TSSOP
AD5143	Yes	Quad	256	I ² C	\$2.85	16-lead LFCSP
AD5123	Yes	Quad	128	I ² C	\$2.45	16-lead LFCSP
AD5142	Yes	Dual	256	SPI	\$1.65	16-lead LFCSP/ 16-lead TSSOP
AD5142A	Yes	Dual	256	I ² C	\$1.65	16-lead LFCSP/ 16-lead TSSOP
AD5122	Yes	Dual	128	SPI	\$1.45	16-lead LFCSP/ 16-lead TSSOP
AD5122A	Yes	Dual	128	I ² C	\$1.45	16-lead LFCSP/ 16-lead TSSOP
AD5141	Yes	Single	256	SPI/I ² C	\$0.90	16-lead LFCSP
AD5121	Yes	Single	128	SPI/I ² C	\$0.70	16-lead LFCSP

The quad-channel AD5144 can be designed into circuits as the gain control for buck/boost controller power supply applications together with ADI's [ADP5034](#) dual-channel, 3-MHz, 1200-mA buck regulators with two 300-mA LDOs.

About Analog Devices

Innovation, performance, and excellence are the cultural pillars on which Analog Devices has built one of the longest standing, highest growth companies within the technology sector. Acknowledged industry-wide as the world leader in data conversion and signal conditioning technology, Analog Devices serves over 60,000 customers, representing virtually all types of electronic equipment. Analog Devices is headquartered in Norwood, Massachusetts, with design and manufacturing facilities throughout the world. Analog Devices is included in the S&P 500 Index.

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