

Analog Devices' Low Dropout Regulators Enable Cleaner and Faster Communications

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) today announced two series of low dropout regulators (LDOs) offering ultra-low noise performance that eliminate unwanted system noise and improve receiver, transmitter, and audio quality. Target applications for the ADP176x and ADP715x LDOs include wireless base stations, wired communications, industrial instrumentation, high-end audio equipment, and medical devices. The new LDOs enable cleaner power rails, faster transient response, and higher power supply rejection ratio (PSRR) in noise-sensitive precision analog and RF applications, particularly when higher data rates are involved.

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<http://www.businesswire.com/news/home/20160316005007/en/>



- | View product pages, download data sheets, order samples and evaluation boards:
<http://www.analog.com/ADP1763> and
<http://www.analog.com/ADP7159>
- | Learn about Analog Devices' linear regulator product portfolio:
<http://www.analog.com/en/products/power-management/linear-regulators.html>
- | Connect with engineers and ADI product experts on EngineerZone®, an online technical support community:
<https://ez.analog.com/community/power>

Higher data rates in many applications are driving the need for cleaner power rails to run sensitive semiconductor devices. The issues intensify as speeds increase and geometries drop from 65nm to 28nm and beyond. The ADP176x and ADP715x LDOs support a growing set of noise-sensitive applications including RF transceivers, voltage-controlled oscillators, phase-locked-loop synthesizers, clocks, and high-speed A/D and D/A converters. The new LDOs also reduce PCB size and cost by eliminating the need for additional passive components including extra external filters and bypass capacitors.

Analog Devices' Low Dropout Regulators Enable Cleaner and Faster Communication (Photo: Business Wire)

output current and operates across an output voltage range of 0.5V to 1.5V. This combination of lower voltage output operation addresses the high-current core rail requirements in many emerging applications. The ADP715x series supports an output range of 1.2V to 3.3V and delivers industry leading noise performance of 1.6 μ Vrms from 10 Hz to 100 kHz while expanding the LDO output current range for this ultra-low sub-2 μ Vrms (100 Hz to 100 kHz) from noise up to 2A maximum. This combination of ultra-low noise and higher PSRR performance set new benchmarks for higher LDO power levels.

The ADP176x and ADP715x LDOs offer excellent noise and PSRR performance. The ADP176x series delivers up to 3A of

Pricing and Availability

Product	Output Voltage Range	Sample Availability	Full Production	Price Each Per 1,000	Packaging
ADP1761	0.5V to 1.5V	Now	April 2016	ADP1761 \$3.09	3x3mm

ADP1762				ADP1762 \$3.49	16-lead LFCSP
ADP1763				ADP1763 \$3.99	
ADP7156	1.2V to 3.3V	Now	April 2016	ADP7156 \$2.69	3x3mm 10-lead
ADP7157				ADP7157 \$2.69	LFCSP
ADP7158				ADP7158 \$3.05	
ADP7159				ADP7159 \$3.05	
ADP7156	1.2V to 3.3V	Now	April 2016	ADP7156 \$2.69	8-lead SOIC
ADP7157				ADP7157 \$2.69	
ADP7158				ADP7158 \$3.05	
ADP7159				ADP7159 \$3.05	

About Analog Devices

Analog Devices (NASDAQ: ADI) designs and manufactures semiconductor products and solutions. We enable our customers to interpret the world around us by intelligently bridging the physical and digital worlds with unmatched technologies that sense, measure and connect.

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