

July 14, 2014



# Zero-Drift Instrumentation Amplifier from Microchip Provides Low Power and High Accuracy with Self-Correcting Architecture

*MCP6N16 Amplifier Maximizes DC Performance with Ultra-Low Offset, Low-Offset Drift, Superior Common-Mode and Power-Supply Rejection and Zero 1/f Noise*

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced the expansion of its [instrumentation amplifier](#) portfolio with the new [zero-drift MCP6N16](#). This self-correcting architecture maximizes DC performance by enabling ultra-low offset, low-offset drift, and superior common-mode and power-supply rejection, while eliminating the adverse effects of 1/f noise. The result is very high accuracy across both time and temperature.

The MCP6N16's low-power CMOS process technology enables low power consumption while still providing 500 kHz bandwidth, and it features a hardware-enable pin for even more power savings. This low-power operation and shutdown capability requires less current for the given speed and performance, which extends battery life and leads to less self heating. Additionally, the amplifier's low, 1.8V operation allows two dry-cell, 1.5V batteries to be drained well beyond typical use, and its rail-to-rail input and output operation enables full-range use, even in low-supply conditions. This provides better performance across the entire operating-voltage range.

The MCP6N16 instrumentation amp is ideal for applications that require a combination of high performance and precision, low power consumption, and low-voltage operation. Examples include sensor interfaces, signal conditioning, and stationary and portable instrumentation, for the medical, consumer and industrial markets.

"The MCP6N16 combines ultra high precision, low power and low operating voltage at a competitive price point," said Bryan J. Liddiard, marketing vice president of Microchip's Analog and Interface Products Division. "This combination of features provides a distinct competitive advantage for our customers, across a wide variety of applications."

## Pricing and Availability

The Zero-Drift MCP6N16 Instrumentation Amplifier is available today for samples and volume production, in 8-pin MSOP and 3x3 mm DFN packages. Both package options are priced at \$1.52 each in 5,000-unit quantities.

For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at <http://www.microchip.com/get/PB60>. To purchase products mentioned in this press release, go to [microchipDIRECT](http://www.microchip.com/get/GJRU) (<http://www.microchip.com/get/GJRU>) or contact one of Microchip's authorized distribution partners.

## Resources

High-res Images Available Through Flickr or Editorial Contact (feel free to publish):

- Chip Graphic: <http://www.microchip.com/get/FB2M>
- Application Circuit Diagram: <http://www.microchip.com/get/SBBA>

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## About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at <http://www.microchip.com/get/73BU>.

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**Tags / Keywords:** Instrumentation Amplifier, Zero Drift, INA, Sensor Interface, Signal Conditioning

Microchip Technology Inc.

**Editorial Contact:**

Eric Lawson, 480-792-7182

[eric.lawson@microchip.com](mailto:eric.lawson@microchip.com)

or

**Reader Inquiries:**

1-888-624-7435

<http://www.microchip.com/get/PB60>

Source: Microchip Technology Inc.