



Microchip Expands Zero-Drift Operational Amplifier Portfolio for Signal Conditioning, Instrumentation and Portable Sensor Applications

New MCP6V11/31 Family Delivers Ultra High Precision, Low Power Operation and a Small Package Alternative for Consumer, Industrial and Medical Designs

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, analog and Flash-IP solutions, today broadened its portfolio of [zero-drift operational amplifiers](#) (op amps) with the debut of the [MCP6V11](#) and [MCP6V31](#) single amplifiers. Operating with a single supply voltage as low as 1.6V and a quiescent current as low as 7.5 μ A, these ultra-high-performance devices offer some of the industry's lowest quiescent current for the given bandwidth without sacrificing the optimal performance essential for portable applications in the consumer, industrial and medical markets.

With an aging world population in need of new therapies and early diagnostic tools, devices like the MCP6V11/31 enable the development of portable [medical](#) products integrated with higher efficiency, and signal conditioning hardware and software, which is critical to accommodate the continued push for lower costs and faster times to market. As well, designers of industrial applications—such as portable sensor conditioning and instrumentation requiring low power, smaller form factors, temperature considerations and cost-management—can benefit from the optimized performance, low quiescent current and low operating voltage made possible by the MCP6V11/31 op amps.

Employing Microchip's advanced CMOS technology, the devices require less current to operate the amplifier while simultaneously delivering longer battery life and minimal thermal-related challenges. The self-correcting architecture of the MCP6V11/31 family provides a maximum input offset voltage of 8 μ V for ultra-low-offset and low-offset drift, enabling maximum accuracy across time and temperature. The MCP6V11 offers 80 kHz of gain bandwidth product, with a low typical quiescent current of only 7.5 μ A; while the MCP6V31 provides 300 kHz of gain bandwidth product, coupled with a low typical quiescent current of 23 μ A. Additionally, the MCP6V11 and MCP6V31 single amplifiers are both available in small 5-pin SOT-23 and 5-pin SC-70 packages, enabling minimal use of board space, ease of system design and reduced cost.

"Microchip continues to leverage its expertise in high-precision amplifier design, with the addition of the MCP6V11 and MCP6V31 zero-drift op amps, which provide an extremely low-power, small-package alternative to Microchip's existing portfolio," said Bryan J. Liddiard, marketing vice president of Microchip's [Analog & Interface Products Division](#). "These devices raise the bar to a new level of ultra-precision, low-power amplifier design that gives

our customers a differentiator for their products while helping them maximize resources and gain a competitive edge.”

Pricing & Availability

Both the new MCP6V11 and MCP6V31 are available now in 5-pin SOT-23 and 5-pin SC-70 packages. Pricing for the MCP6V11 starts at \$0.82 each in 5,000-unit quantities, while the MCP6V31 starts at \$0.81 each. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip’s Web site at <http://www.microchip.com/get/T15S>. To purchase products mentioned in this press release, go to [microchipDIRECT](#) or contact one of Microchip’s authorized distribution partners.

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Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, 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/1L7G>.

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