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New High-Speed A/D Converters from Microchip Feature High Integration Low-Power 14-/12-bit, 200 Msps Stand-Alone ADCs

MCP37DX0-200 and MCP372X0-200 Families Provide Low Power and High Integration of Digital Processing Functions in 124-lead VTLA Packages

CHANDLER, Ariz., May 14, 2015 /PRNewswire/ -- Microchip Technology Inc. **(NASDAQ: MCHP)**, a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced two families of new high-speed A/D converters in the **MCP37DX0-200** and **MCP372X0-200** families. These families feature 12- and 14- bit pipelined A/D converters with a maximum sampling rate of 200 Mega samples per second (Msps). The 12- and 14-bit devices feature high performance of over 67 dB Signal-to-Noise Ratio (SNR) and over 96 dB Spurious Free Dynamic Range (SFDR). This enables high-precision measurements of fast input signals. These families operate at very low-power consumption of 338 mW at 200 Msps including LVDS digital I/O for the 12-bit devices and 348 mW for the 14-bit devices. Lower power-saving modes are available at 80 mW for standby and 33 mW for shutdown.

The MCP37DX0-200 and MCP372X0-200 include various digital processing features that simplify system design, cost and power usage for designers. These families also include decimation filters for improved SNR and phase, offset and gain adjustment. Data is available through the serial DDR LVDS or parallel CMOS interface and configured via SPI. An integrated digital down-converter is included in the MCP37DX0-200 family making it ideal for communications applications. The 12-bit devices include an integrated noise-shaping requantizer which enables users to lower the noise within a given band of interest for improved accuracy and performance. These families are targeted for applications in the communications markets such as base stations, test equipment, and IF receivers, among others.

"Microchip continues to expand its presence in the market of high-performance, high-speed A/D converters while leaping past existing solutions with industry-leading integration of digital processing functions," said Bryan J. Liddiard, marketing vice president of Microchip's Analog and Interface Products Division. "With their low power, high accuracy and high integration of digital processing functions, these new A/D converters are ideal for many communication systems, industrial and other applications."

Development Tool Support
The MCP37DX0-200 and MCP372X0-200 are supported by **Microchip's MCP37XX0-200 14-bit 200 Msps VTLA Evaluation Board** (Part # ADM00652, $450.00), and **MCP37XXX High-Speed ADC Data Capture Card** (Part # ADM00506, $599.00).

Pricing & Availability
The MCP37DX0-200 and MCP372X0-200 families are available now for sampling and volume production in 124-lead VTLA packages, at prices ranging from $25.78 to $53.87 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/MCP37DX0-200-MCP372X0-200-Page-051115a**. To purchase products mentioned in this press release, contact one of Microchip's authorized distribution partners.

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Tags / Keywords: ADC, A/D Converter, High Speed, Low Power, Communications Systems, Data Converter, Digital-Down Converter, Decimation Filter, MCP37DX0-200, MCP372X0-200, MCP37D20-200, MCP37220-200, MCP37D10-200, MCP37210-200

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