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Microchip Expands Industrial Ethernet Switch Portfolio With Enhanced Devices Featuring IEEE 1588-2008 Precision Time Protocol and Low-Power Options

Highly Integrated LAN9353/4/5 Three-Port 10/100 Ethernet Switches Provide Multiple Microcontroller Data Interfaces for Maximum Flexibility

CHANDLER, Ariz., Aug. 25, 2015 /PRNewswire/ -- Microchip Technology Inc. [NASDAQ: MCHP], a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced the addition of the **LAN9353**, **LAN9354** and **LAN9355** Three-Port, 10/100 Industrial Ethernet Switches to its reliable, high-quality, and high-performance portfolio of Ethernet solutions, which includes Ethernet switches, controllers, bridges and PHYs.

Featuring the IEEE 1588-2008 Precision Time-stamp Protocol (PTP) standard for clock accuracy in the sub-nanosecond range, these highly integrated Ethernet switches offload both synchronization and communications processing from the host CPU. Developers can also take advantage of advanced features such as Transparent Clocking, which improves system accuracy. Additional features designed to reduce overall system power consumption include Energy Efficient Ethernet (IEEE802.3az), and Wake On LAN. These switches enable the development of advanced hardware in the rapidly growing Industrial Ethernet market, including automation, motion-control, embedded, automotive, security/surveillance and telecommunications applications.

To learn more about Microchip's portfolio of Ethernet Switches, visit: **http://www.microchip.com/Ethernet-Switches-071415a**.

The LAN9353/4/5 10/100 Ethernet switches support widely adopted industry standards, such as MII (Media Independent Interface), RMII (Reduced Media Independent Interface), SMI (Serial Management Interface), Turbo MII, $I^2C^{™}$ and SPI/SQI™ communication

interfaces, along with digital I/O. This gives system designers the flexibility to select from a wide range of microcontrollers, Systems-on-Chip (SoCs) or processors to interface with this new family of switches.

"In a world that is becoming increasingly connected to the Internet of Things, Ethernet has emerged as the de-facto wired interconnect standard," said Mitch Obolsky, VP of Microchip's USB and Networking Group. "Industrial-control manufacturers and IT professionals have embraced this standard, and need compelling new connectivity options for their designs. By expanding our portfolio of full-featured Ethernet switches, Microchip is demonstrating its commitment to being the most reliable Ethernet solutions partner in the industry, offering engineers high-performance devices that feature flexibility and ease of integration."

Ethernet connectivity has become ubiquitous in communications and networking products. This well-understood technology provides a robust link to ensure reliable communication between devices in a network. To ensure easy installation and network expansion, as well as minimal maintenance, these switches also support 100BASE-FX fiber and copper, along with cable diagnostics that enable system designers and their end users to determine cable opens, shorts, length to fault and cable length, providing a cost-effective way to extend Ethernet networks over long distances.

Development Support
To enable development with the LAN9353/4/5 Three-Port 10/100 Ethernet Switches, three Microchip evaluation boards were also announced today that support various system architectures. These hardware systems demonstrate how to interface with the switches through basic input/output connections, or with microcontrollers such as the 32-bit PIC32MX family via serial communications.

Each of these new evaluation boards is also supported by a Software Development Kit (SDK), which enables developers to immediately start device evaluation, familiarize themselves with features, and begin building solutions for their applications. All three evaluation boards, (part # EVB-LAN9353, $300), (part # EVB-LAN9354, $250) and (part # EVB-LAN9355 $300) are available now via any Microchip sales representative or authorized worldwide distributor, or from **microchipDIRECT (http://www.microchip.com/microchipDIRECT-071415a)**.

Pricing & Availability
The LAN9353/4/5 Three-Port 10/100 Ethernet Switches are available now for sampling and volume production in low pin count and small body size packages, starting at $3.31 each in 10,000-unit quantities. The package options are: 64-pin QFN and TQFP-EP for the LAN9353, 56-pin QFN for the LAN9354, and 88-pin QFN and 80-pin TQFP-EP for the LAN9355. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at **http://www.microchip.com/Ethernet-Switches-071415a**. To purchase products mentioned in this press release, go to **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

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

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- Block Diagram: **http://www.microchip.com/Block-Diagram-071415a**
- EVB-LAN9353 Board Photo: **http://www.microchip.com/EVB-LAN9353-071415a**

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Tags / Keywords: 10/100 Ethernet Switch, 10/100, SPI, SQI, Host Bus Interface, Fiber Connectivity, Cable Diagnostics, Industrial, IoT, Internet of Things

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