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New Gigabit Ethernet Switch with AVB/TSN and Integrated PHYs for Industrial Automation

The LAN9662 includes a Real-Time Engine to process high-speed cyclical data in flight

CHANDLER, Ariz., Aug. 22, 2023 (GLOBE NEWSWIRE) -- Industrial automation and digital transformation are driving market growth for scalable and standardized networking solutions to address the needs of commercial Operational Technology (OT) deployments. To provide automation manufacturers with a comprehensive networking solution, Microchip Technology **(Nasdaq: MCHP)** today announces the **LAN9662 Gigabit Ethernet Switch** with four ports, Audio-Video Bridging and Time Sensitive Network (AVB/TSN), two integrated 10/100/1000BASE-T PHYs and a 600 MHz Arm® Cortex®-A7 CPU subsystem.

To support industrial Ethernet applications, the LAN9662 features a Real-Time Engine (RTE) that provides the ability to modify the Ethernet frame in flight, enabling faster cyclical data rates and low latency. The LAN9662 is compliant with key industry standards such as the OPC Unified Architecture (OPC/UA) and PROFINET software stack, offering deterministic communication capabilities necessary for industrial networking applications.

“Expanding on the LAN966x family, the LAN9662 opens a path to scale with TSN-enabled networking endpoints,” said Charles Forni, vice president of Microchip’s USB and networking business unit. “Our solutions offer customers the advantage of starting their designs with industry standards met, supported by a comprehensive software portfolio.”

With two integrated PHYs, the LAN9662 provides extremely low latency to support various daisy chain topologies. The PHY interfaces enable fast data processing within a specified time to provide a reliable network for automation applications such as motor, conveyor and multi-axis robot controllers.

The LAN9662 supports up to two RGMII/RMII, up to two 1000BASE-X/SerDes/2.5GBASE-X/KX, and a Quad-SGMII/Quad-USGMII interface. The configurable interfaces allow designers to reach various types of physical layers or interconnects they may require.

Microchip is an established supplier of industrial-grade networking solutions, offering a broad portfolio of robust, energy efficient and highly integrated products with deterministic switching and fault-tolerant redundancy. Its products significantly reduce the complexity and overhead of deploying Ethernet across a variety of industrial applications. To learn more about Microchip’s Ethernet solutions, click **here**.

Development Tools

The LAN9662 is supported by Microchip's Switch API, the **EVB-LAN9662** and the EVB-LAN9662-Carrier Board. Software support is also offered through **Platform BSP**, Linux® Switchdev and PROFINET Software Stack.

Pricing and Availability

The LAN9662 is available at $13.10 in volume quantities. For additional information and to purchase, contact a Microchip sales representative, authorized worldwide distributor or visit Microchip's Purchasing and Client Services website, **www.microchipdirect.com**.

Resources

High-res images available through Flickr or editorial contact (feel free to publish):

- Application image: **www.flickr.com/photos/microchiptechnology/53101987487/sizes/l**

About Microchip Technology:
Microchip Technology Inc. is a leading provider of smart, connected and secure embedded control solutions. Its easy-to-use development tools and comprehensive product portfolio enable customers to create optimal designs which reduce risk while lowering total system cost and time to market. The company's solutions serve more than 125,000 customers across the industrial, automotive, consumer, aerospace and defense, communications and computing markets. Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at **www.microchip.com**.

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