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Marvell Unveils Industry's First 1000BASE-T1 Automotive Ethernet PHY Transceiver

Marvell's 88Q2112 supports 1000Mbps of in-vehicle data bandwidth and meets the draft IEEE 802.3bp automotive standard

SANTA CLARA, Calif., Oct. 19, 2015 /PRNewswire/ -- [Marvell](#) (NASDAQ: MRVL) — a worldwide leader in providing complete silicon solutions from storage to Internet of Things (IoT), cloud infrastructure, digital entertainment, in-home content delivery and [Kinoma®](#) software enabling the "Smart Life and Smart Lifestyle"— today announced the [Marvell® 88Q2112](#), the industry's first 1000BASE-T1 automotive Ethernet physical layer (PHY) transceiver compliant with the draft IEEE 802.3bp 1000BASE-T1 standard. The 88Q2112 supports the industry's highest in-vehicle connectivity bandwidth and is designed to meet the rigorous EMI requirements of an automotive system. The 1000BASE-T1 standard allows high speed and bi-directional data traffic over light weight, low cost, single pair cable harnesses. The Marvell 88Q2112 will sample to Marvell's global customers starting in November 2015.

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"As cars are being designed and manufactured with more sophisticated Advanced Driver Assistance Systems (ADAS), automotive manufacturers and engineers are looking for solutions to meet the growing in-vehicle connectivity bandwidth demands. Marvell was instrumental in the development of the IEEE 802.3bp standard; therefore, I am thrilled that Marvell is the first silicon provider to offer a 1000Mbps automotive Ethernet transceiver," said Philip Poulidis, Vice President and General Manager, Automotive, Wireless and Internet of Things Business Units at Marvell. "The 88Q2112 extends Marvell's leadership of providing best-in-class Wi-Fi and telematics connectivity solutions and supports the 1000Mbps connectivity needs of next-generation connected and autonomous cars. Marvell's automotive solutions are designed to connect the connected car."

Marvell's 88Q2112 enables the transport of uncompressed 720p30 camera video and supports multiple High Definition (HD) video streams with up to 4K resolution. The 88Q2112 features upgrade compatibility to support both 100Mbps and 1000Mbps single pair Ethernet solutions and can be used to aggregate multiple 100Mbps Ethernet domains. The 88Q2112 also supports the high data rate sensors needed for autonomous vehicles. The line interface of the 88Q2112 is fully compliant to the draft IEEE 802.3bp standard that defines the physical layer specifications and management parameters for 1000Mbps operation over a single unshielded twisted pair copper cable.

Key features of Marvell's 88Q2112:

- Compliant to the draft IEEE 802.3bp standard for 1000Mbps operation over a single unshielded twisted pair copper cable

- Designed for the rigorous EMI requirements of an automotive system
- Enables transport of in-vehicle uncompressed 720p30 camera video and support for multiple HD video streams, including 4K resolution
- Single pair Ethernet allows selection of light-weight low cost cable harness

To learn more, please visit <http://www.marvell.com/solutions/automotive/>

Marvell will be demonstrating the 88Q2112, the industry's first demonstration of a single pair Ethernet solution based on the IEEE 1000BASE-T1 draft specification at the IEEE Standards Association (IEEE-SA) Ethernet & IP @ Automotive Technology Day 2015, held Oct. 27-28, at the Pacifico Yokohama Conference Center in Japan.

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions and Kinoma software enabling the "Smart Life and Smart Lifestyle." From storage to Internet of Things (IoT), cloud infrastructure, digital entertainment and in-home content delivery, Marvell's diverse product portfolio aligns complete platform designs with industry-leading performance, security, reliability and efficiency. At the core of the world's most powerful consumer, network and enterprise systems, Marvell empowers partners and their customers to always stand at the forefront of innovation, performance and mass appeal. By providing people around the world with mobility and ease of access to services adding value to their social, private and work lives, Marvell is committed to enhancing the human experience.

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