

## Marvell Introduces Industry's First 1000BASE-T1 Development Platform With Automotive Grade Connectors From TE Connectivity

**Marvell's new development platform enables OEMs to quickly bring to market Gigabit Ethernet in automotive systems**

SANTA CLARA, Calif., Feb. 2, 2016 /PRNewswire/ -- [Marvell](#) (NASDAQ: MRVL), a world leader in storage, cloud infrastructure, Internet of Things (IoT), connectivity and multimedia semiconductor solutions, today announced a new automotive Ethernet reference platform integrated with TE Connectivity's (TE) MATEnet modular and scalable connector for automotive Ethernet.

Marvell's new development platform supports audio video bridging (AVB) switching solutions with 100BASE-T1 and 1000BASE-T1 Ethernet physical layer (PHY) capability. The platform also enables car manufacturers to quickly prototype automotive systems with Gigabit Ethernet for electrical and electronic (E/E) architectures including In-Vehicle Infotainment (IVI), Advanced Driver Assistance Systems (ADAS), Electronic Control Units (ECU) and Vehicle Domain Gateways.

"The next generation of vehicle technology requires a high speed, resilient data infrastructure that can operate in the robust conditions of an automobile. Applications like autonomous driving, advanced safety features and an immersive infotainment system are all driving these new architectures," said Philip Poulidis, Vice President and General Manager, Automotive, Wireless and Internet of Things Business Units at Marvell Semiconductor, Inc. "Marvell is excited to provide the industry's first development platform that combines our network and Ethernet expertise with TE's experience in providing real world automotive connector and cable systems to enable vehicle architects to begin designing these systems for mass production."

"We are thrilled to work with Marvell to integrate our solution into the first automotive systems that will offer 1000Mbps connectivity," said Eric Kueppers, president of TE's Global Automotive Business. "We were impressed with Marvell's innovative Ethernet PHY technology specifically designed for automotive 100 and 1000BASE-T1 Ethernet PHY transfer and the company's proven leadership in designing connectivity solutions for next-generation, connected cars."

Marvell's automotive reference platform provides 100BASE-T1, 1000BASE-T1 and 10/100/1000BASE-T1 Ethernet PHY ports with advanced switching silicon. The platform includes support for the AVB networking standards of the AVnu Alliance's certification test subgroup (CDS). Support includes Stream Reservation Protocol (SRP) to provide end-to-end management of resource reservations for automotive data streams. Marvell's Ethernet PHYs enable high definition and uncompressed video, high speed links between domains to support connected and autonomous driving systems and the fastest system bring up from power down to A/V Bridging (AVB) operation. Included in the reference platform are Marvell's 88Q2112 100BASE-T1 PHY and 88Q1010 100BASE-T1 PHY transceivers, 88EA6352 automotive grade AVB 7 port switch and 88EA1512 10/100/1000BASE-T PHY transceivers. The BASE-T1 technology is compatible with TE's MATEnet modular and scalable connector for automotive Ethernet. TE's offering is also compatible with Marvell's automotive reference platform and includes 1-port and 5-port links for 100/1000 BASE-T1 connectivity.

The 88Q2112 is the industry's first 1000BASE-T1 automotive Ethernet PHY transceiver compliant with the draft IEEE 802.3bp 1000BASE-T1 standard. The 88Q2112 supports the market'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 88Q2112 enables the transport of in-vehicle uncompressed 720p30 camera video and support for multiple HD video streams, including 4K resolution. The 88Q1010 low-power PHY device supports 100BASE-T1 and is compliant with the IEEE 802.3bw 100BASE-T1 standard. The 88Q1010 supports compressed 1080p60 video for infotainment and camera systems and enables data transport in the car. Its low power design and integrated filter reduce bill of materials (BOM) costs and enable small form factor designs. The combination of these components enables a robust infotainment and ADAS experience that today's drivers demand in the connected car.

TE's MATEnet modular and scalable connector for automotive Ethernet is designed to meet the harsh automotive environment by providing the performance needed in automotive Ethernet data transmission up to 1Gbit/s, according to IEEE 100/1000BASE-T1. Based on miniaturized standard automotive terminals, such as NanoMQS, Generation50, MCON 050 and 0.50 Series, MATEnet connectors represent a global terminal platform. In addition, there is an opportunity to use TP (Twisted Pair), UTP (Unshielded Twisted Pair) and STP (Shielded Twisted Pair) types of cable for Ethernet applications. The MATEnet connector can also be adapted to customers' specific needs.

## About TE Connectivity

TE Connectivity is a \$12 billion global technology leader. Our connectivity and sensor solutions are essential in today's increasingly connected world. We collaborate with engineers to transform their concepts into creations – redefining what's possible using intelligent, efficient and high-performing TE products and solutions proven in harsh environments. Our 72,000 people, including over 7,000 engineers, partner with customers in close to 150 countries across a wide range of industries. We believe EVERY CONNECTION COUNTS – [www.TE.com](http://www.TE.com).

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## 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 cloud infrastructure, Internet of Things (IoT), connectivity and multimedia, 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, personal and work lives, Marvell is committed to enhancing the human experience.

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### For Further Information Contact: Marvell Media Relations

Sue Kim

Director, Corporate Communications & PR

408.222.1942

[suekim@marvell.com](mailto:suekim@marvell.com)

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