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IEEE Approves Standard Amendment Project to Meet Demand for Greater Than 1 Gb/s Automotive Ethernet

IEEE P802.3ch™ Standard to define Physical Layer Specifications and Management Parameters to support media and operating conditions for applications in the automotive environment

PISCATAWAY, NJ, XX August 2017 – IEEE, the world's largest technical professional organization dedicated to advancing technology for humanity, and the IEEE Standards Association (IEEE-SA), today announced the ~~approval of IEEE P802.3ch™ —Standard for Ethernet Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet. The new standard~~formation of a task force to develop IEEE P802.3ch Standard for Ethernet Physical Layer Specifications and Management Parameters for Greater Than 1 Gb/s Automotive Ethernet. The new standards development project aims to meet the demand for higher speed Ethernet in the automotive environment to support ongoing technological developments, such as connected cars, advanced driver assisted systems and infotainment systems.

~~IEEE 802.3 defines Ethernet local area, access and metropolitan area networks, where Ethernet is specified at selected speeds of operation, and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected Physical Layer entities (PHY). The Physical Layer~~

~~encodes frames for transmission and decodes received frames with the modulation specified for the speed of operation, transmission medium and supported link length. Other specified capabilities include control and management protocols, and the provision of power over selected twisted pair PHY types.~~

~~"IEEE P802.3ch meets a growing need for MultiGig Ethernet to support~~ "IEEE P802.3ch will bring up to 10 Gb/s to the IEEE 802.3 automotive Ethernet family, enabling a new generation of applications and connectivity," said Steve Carlson, chair of the IEEE P802.3ch Multi-Gig Automotive Ethernet PHY Task Force and president of High Speed Design, Inc. "~~Rapid advancements~~Ethernet standardization will enable rapid advancement in technologies such as driverless ~~and~~or assisted driving systems, ~~as well as~~and automotive infotainment~~, is driving the need for standardization in the marketplace.~~. We look forward to working collaboratively to build consensus on ~~standard~~standards development that will meet the needs of all stakeholders."

Original Equipment Manufacturers (OEMs), suppliers, semiconductor vendors and tool providers are encouraged to participate in the upcoming 7th annual Ethernet & IP @ Automotive Technology Day (E&IP@ATD) to be held 31 October to 02 November 2017 at the San Jose McEnery Convention Center, San Jose, CA. Please visit the event landing page for a full program agenda and to explore details on this premier venue for discussion and information sharing on the evolution of Ethernet standards, technologies and applications in the automotive environment.

Deployment of technology defined by IEEE 802® standards is already globally pervasive, driven by the ever-growing needs of data networks around the world. New application areas are constantly being considered that might leverage IEEE 802 standards in their networks from wireless, through twisted-pair cabling, to fiber-optic cabling solutions. To better address the needs of all of these areas, IEEE 802 standards are constantly evolving and expanding. The success of IEEE 802 standards—from their inception through today—has been based upon their fair, open and transparent development process.

To learn more about IEEE-SA, visit us on Facebook, follow us on Twitter, connect with us on LinkedIn or on the Beyond Standards Blog.

About the IEEE Standards Association
The IEEE Standards Association, a globally recognized standards-setting body within IEEE, develops consensus standards through an open process that engages industry and brings together a broad stakeholder community. IEEE standards set specifications and best practices based on current scientific and technological knowledge. The IEEE-SA has a portfolio of over 1,200 active standards and over 650 standards under development. For more information visit http://standards.ieee.org.

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