The Ethernet Alliance is committed to building industry and end-user confidence in Ethernet standards through its multi-vendor interoperability demonstrations and plugfests. Our PoE Certification Program takes the mission to the next level!

Our industry-defined PoE Certification Test Plan is based on the IEEE 802.3at (PoE 1) and products passing this test will be granted the Ethernet Alliance PoE Certification Logo. The trademarked logo provides instant recognition for products based on these standards, and increases multi-vendor interoperability between products bearing it. The logos indicate the standards, and increases multi-vendor interoperability between products bearing it.

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ETHERNET APPLICATIONS

AUTOMOTIVE and Enterprise applications are moving from older backhoe style networks to Ethernet. This move has been accelerating over the last decade, with Ethernet as a key enabling technology for the Fourth Industrial Revolution aka Industry 4.0. The wave themes of Industry 4.0 are Interconnection, Information Transparency, Technical Assistance and Decentralized Decisions. (1) Adopting Ethernet provides these applications access to all the networking technologies that IT has developed over the last 40 years, as well as physical layers developed specifically for harsh OT environments, e.g., I/OMA Edge Ethernet, in conjunction with IEEE Time Sensitive Networking (TSN) a revolutionizing industrial automation. In turn, automation applications are seeing Ethernet development return to its roots such as 10/100 Mb/s speeds and shared media using new technology.

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**LATEST INTERFACES AND NOMENCLATURE**

**ETHERNET SPEEDS**

**SIGNALING METHODS**

**OPTICAL EVOLUTION**

**ETHERNET ECOSYSTEM**

**PATH TO SINGLE LANE**

**FATTER PIPES**

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