2018 ETHERNET ROADMAP

THE PAST, PRESENT AND





INTEROPERABILITY AND CERTIFICATION

The Ethernet Alliance is committed to leading the charge to instilling inclustry confidence in Ethernet standards through its multivendor interoperability demonstrations and plugfests. Our Poli Certification Program takes this mission to the next level!

Our Industry-defined PoE Certification Test Plan is based on the Ethernet PoE stand and, and products prossing this test will be greated the Ethernet Allescen PoE Certification Logo. This logo will provide instant exception for products that are beaution on the IEEE 800.3 FoE standard, and provide contidence in the substitution of the IEEE 100.3 FoE standard, and provide contidence in the multi-vendor interpretability of those products bearing LT the logo will also provide clear guidance on which depicts all lands will be also provide clear guidance on which depicts all lands with a March 100.0 FoE 100.0 FoE

The first generation of the program certifies Type I and Type 2 products that use 2-Peir of wires. The second generation of the program will tackle the forthcoming IEEE 802.20F Poil standard. This table explains the capabilities of the Types.



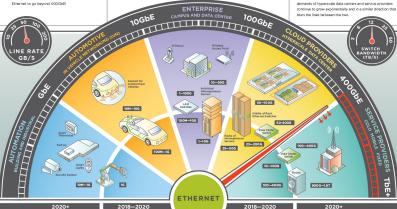


ETHERNET APPLICATIONS

ENTERPRISE and Campus applications drive the bulk of Ethernst out showeds with hundred of millions of post shopping per set. Ethernst 1 voice ser in enterprise to dear on extensive Like law of post shopping per set. Ethernst 1 voice ser in enterprise in products, can be considered to the control (Like law enterprise from the control (

CLOUD PROVIDERS were the first to adopt

NOBES serves on a large scale in 2000 for hyperscale data owners. With procrosul appettes for east-west traffic. hyperscale servers have moved to 25GbE today and will move to 50GbE by the end of 2008. Utduse networking architectures within these senshouse scale data centers have divine multiple multimode and tallege-mode fiber solutions at 100, 200 and 400 GbE. The bandwidth demands of hyperscale data centers and service providers contract to give properentally and an animal direction that



BUILDING AND INDUSTRIAL applications highlight the need for lower speed Ethernet solutions in hearth environments. The Ethernet community is working to define a single standard for 10 Hbd, operation plus power delively over a regine twisted pair. This will consolidate a landscape of multiple legacy protocols, driving the promise of Ethernet's multi-level Interoperability to new heights for these appears, as 200 Processits point to 8th "million ports per year." SERVICE PROVIDERS have driven higher speed Ethernet solutions for decades. Router connections, clean side optics for optical transport network (OTN) equipment, and wireless backhaul have contribusily pushed Ethernet to higher rates and distances to meet the demands for wireless connectivity. And with global demand by consumers for video, this shows no signs of changing.

AUTOMOTIVE Ethernet is one of

Ethernet's latest success stories. Forecasts predict

up to 500 million ports of Ethernet will ship in 119

million vehicles by 2019. Ethernet links within cars

provide data and power to reduce the cost and

weight in vehicles while providing economies of

scale and interoperability. The bandwidth demand

of connected cars could be the next big driver for