

25 Gb/s Ethernet Over Single Mode Fiber

Call For Interest

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Overview: Motivation

- Address 25GE links longer than 100m.
- Develop standards for cost optimized 25GE SMF PMD(s).
- Allow other markets (e.g., Enterprise, Metro) to adopt 25GE.
- Initial applications
 - Enterprise campus; Metro network access
- Similar technologies
 - Mobile Front-haul – 25G for Common Public Radio Interface (CPRI)

CFI Logistics

- Tuesday 10 Nov, 8:00-9:00PM, Room TBD
 - Overview consensus building presentation
- Thursday 12 Nov, Afternoon
 - Request to form study group at 802.3 Closing Plenary

Call for Interest

The IEEE 802.3by Task Force is developing standards that utilize 25 Gb/s technology for cost optimized serial solutions. As adoption of ASIC IO becomes more common across networking silicon, the opportunity to leverage low-cost serial technologies extends beyond the large scale data centers and into enterprise applications. A gap exists in the family of 25 Gb/s Ethernet PMDs which would be needed to fully address the enterprise application and the inclusion of single-mode fiber PMD(s) are needed. There is growing interest from enterprise and cloud services providers in extending 25 GE serial technology to reaches greater than 100 m for applications such as metro network access and building-to-building interconnects.

This Call For Interest is a request for the formation of a study group to 1) explore the development of new 25 Gb/s Ethernet single mode fiber PMDs, and 2) evaluate the market requirements supporting the longer-reach 25 Gb/s Ethernet interface.