Gigabit Ethernet over Plastic Optical Fiber (GEPOF) Study Group Objectives

- Preserve the IEEE 802.3/Ethernet frame format utilizing the IEEE 802.3 MAC
- Preserve minimum and maximum frame size of the current IEEE 802.3 standard
- Support full duplex operation only
- Support a data rate of 1000 Mb/s at the MAC/PLS service interface
- For the automotive environment:
    - Specify operation over at least 15m of POF with 4 POF connections
    - Specify operation over at least 40m of POF with no POF connections
- For the home and industrial environment specify operation over at least 50m of POF with 1 POF connection
- Maintain a bit error ratio (BER) better than or equal to 10^{-12} at the MAC/PLS service interface
- Specify optional Energy-Efficient Ethernet for 1000 Mb/s over POF