Basic Objectives

1. Define an electrical interface to provide connectivity to a **single** 10/100 Ethernet port with fewer than 8 pins.

2. Provide **single** port connectivity without a SerDes.

3. Define an electrical interface to provide connectivity to up to 8 10/100 Ethernet ports with fewer than 8 pins.

4. Provide eight-port connectivity with a SerDes not to exceed 2 Gbps.

Feature Objectives

1. Provide an optional in-band MDIO management interface.

2. Support in-band PTP timestamping.

3. Support Energy Efficient Ethernet (EEE).

4. Support half-duplex operation.

5. Support PLCA.

6. Support full-duplex operation.

7. Support frame preemption.