Product Brief: EoS Smart SFP+ OC-48/STM-16 Ethernet over SONET/SDH
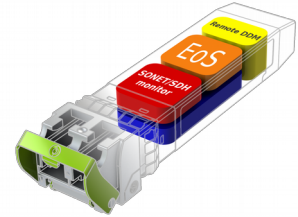
Overview

EoS (Ethernet over SONET/SDH) Smart SFP+ supports transport of Ethernet packets over OC-48/STM-16.

Designed in conformance with the Small Form Factor Pluggable 20-pin Multi-Source Agreement (MSA), EoS Smart SFP+ can replace an existing SFP+ in a router or a switch and transport Ethernet packets across a SONET or SDH network.

By inserting the Plug-and-Play Smart SFP in a free 10GbE port, any router or packet switch can be upgraded to support 2.5 Gbps Packet over SONET/SDH, saving power, space and cost. Additionally, it provides extra flexibility, as any number of SFP+ ports can be upgraded to provide a SONET/SDH network interface.

The integration of the EoS function into an SFP+ greatly reduces system and network complexity, offers lower carbon footprint, and brings CAPEX and OPEX savings.
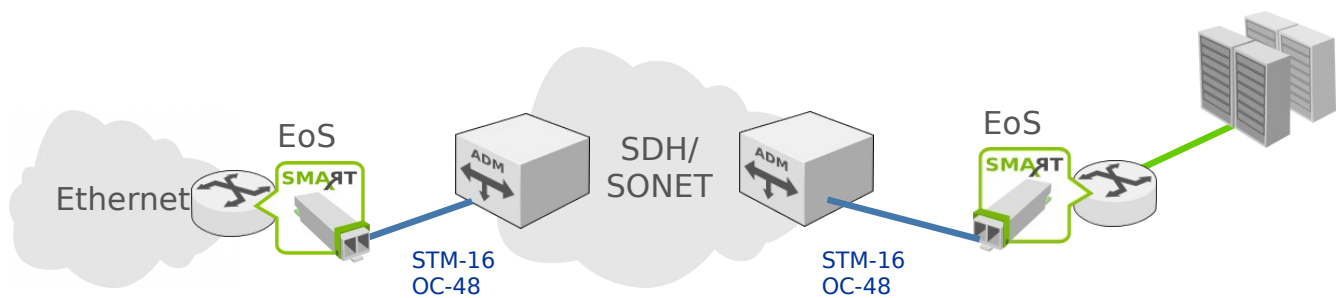
Application Highlights

- Interconnection of packet switches or routers across a SDH or SONET network
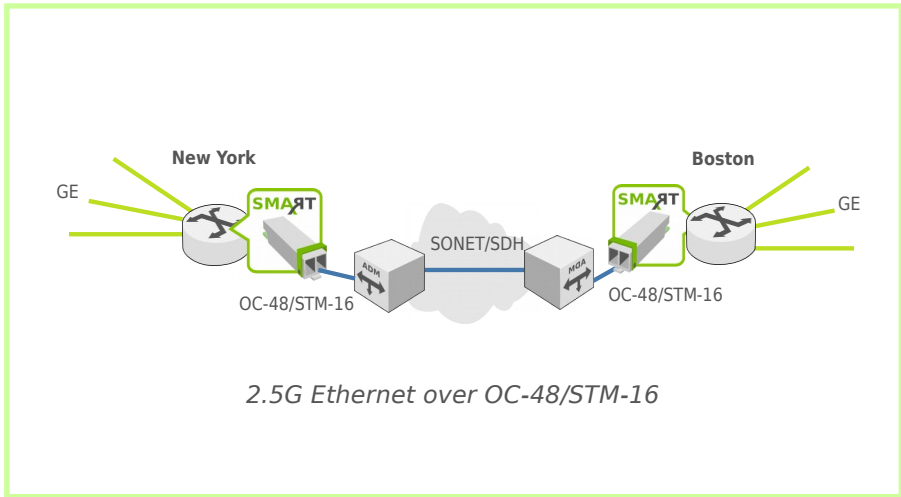- Fully transparent packet connection

Benefits

- Compact size
- Several optical reaches supported
- Low Carbon footprint
- Total cost reduction

Applications

Transport of Ethernet packets over a SONET/SDH network using EoS OC-48/STM-16 Smart SFP

2.5G Ethernet over OC-48/STM-16

Features

- SFP+ SSF-8431 compliant[1]
- DDM SFF-8472 compliant
- Ethernet over SONET/SDH protocol
- Fully transparent packet connection
- Point-to-point link
- 2.5 Gb/s capacity via VC4-16c or STS-48c
- Flow control via PAUSE message
- Low latency
- SONET/SDH line rates:
  - OC-48/STM-16

Interfaces

- Compatible with 10GE SFP+ MSA
- LC duplex connector
- Optical transceiver options
  - Duplex fiber
  - Optical reach: 2 and 15 km
- Available operating temperature ranges:
  - Commercial: 0°C to 70°C

Contact Information

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