RSP12SLX-IT3iC1R - 3024B

Smart SFP GE OAM CFM LX 10 km

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Product Description

The Smart SFP™, is a new class of SFP that integrates intelligent and innovative system functions into an SFP module.

Operations, Administration and Maintenance (OAM) tools are essential for service turn-up and Service Level Assurance in Carrier Ethernet networks. The Smart SFP provides operators with these tools for monitoring and troubleshooting Ethernet services by simply replacing a conventional SFP with a Smart SFP.
This solution reduces system and network complexity, and offers lower carbon footprint while generating CAPEX & OPEX savings.
The Smart SFP modules provide customers an easy solution for monitoring and troubleshooting using standardized protocols at various operational layers:

- Physical layer monitoring via remote DDMI digital diagnostics monitoring retrieval,
- Link layer monitoring via instant-on support for Link OAM according IEEE 802.3ah,
- Service layer OAM using Connectivity Fault Management according IEEE 802.1ag and ITU-T Y.1731.

These integrated OAM capabilities are complemented with Gigabit Ethernet wire speed and very low latency. The Smart SFP serves a wide range of optical and reach applications: duplex fiber, single fiber bidirectional, and single wavelength bidirectional, including CWDM with reaches up to 80 km at industrial temperature range.
An API is available to facilitate the integration in existing equipment and management systems. This management interface allows for configuration and monitoring of relevant parameters.
The Smart SFP transceivers are compatible with the Small Form Factor Pluggable 20-pin Multi-Source Agreement (MSA).

Features

- SFP INF-8074 compatible
- DDM SFF-8472 compliant
- Software API for remote management
- Remote access to Digital Diagnostics Monitoring
- Link OAM IEEE 802.3ah
- CFM Service OAM IEEE 802.1ag
- ITU-T Y.1731 Performance Management
- Transparent to Synchronous Ethernet
- Link Pass Through a.k.a. Link Loss Forwarding
- Low latency and wire speed GbE throughput
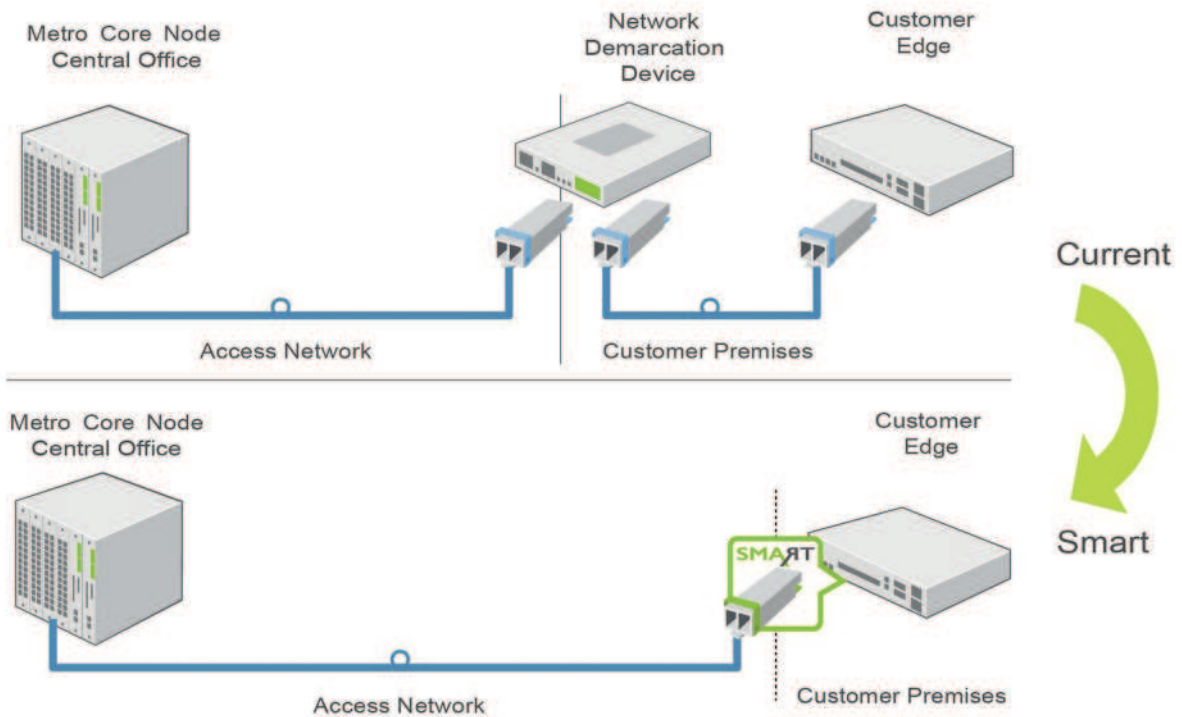- Protocol processor for OAM

Applications

- Applications:
  - Gigabit Ethernet network demarcation
  - End-to-end service assurance
- Link OAM
- Service OAM (CFM and Y.1731)
- Benefits:
  - Very compact size
  - Low carbon footprint - Green solution
  - Overall cost reduction
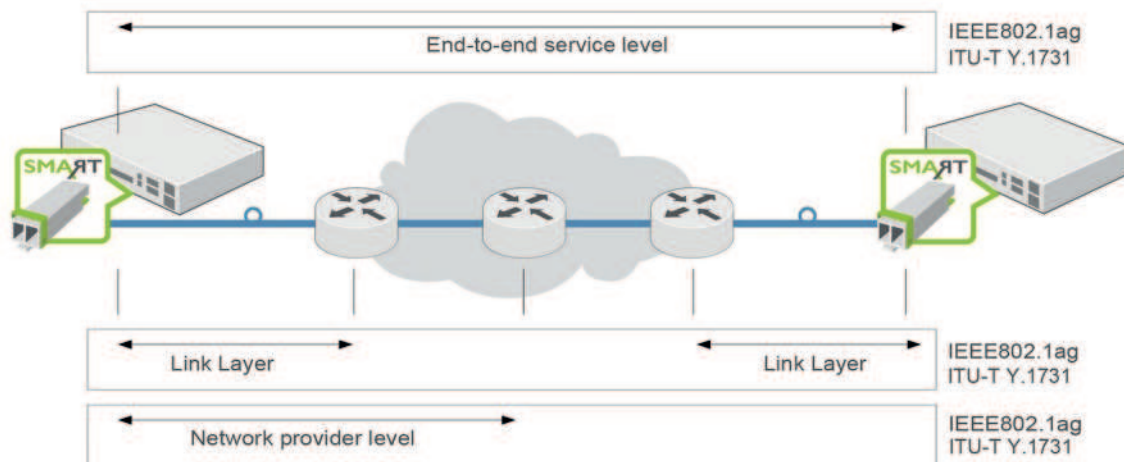
Interfaces

- Compatible with SFP electrical MSA
- LC connector type
- Wide range of optical transceiver options:
  - Duplex or bidirectional fiber
  - Various optical reaches, up to 80 km
  - CWDM interface types
- Available operating temperature ranges:
  - Standard: -5°C to 75°C
  - Extended: -10°C to 85°C
  - Industrial: -40°C to 85°C

Applications

Very compact, low power demacation with Smart SFP™ as NID

End-to-end and link-level Service OAM with IEEE802.1ag & ITU-T Y.1731