

10 Gbps XFP transponder module

Wavelength converter and repeater of optical 10 Gbps networks



SPEED-SINGLELINE XFP is a cost-saving converter for high-speed 10Gigabit signals. The module contains two flexible XFP ports to connect diverse wavelengths and optical budgets for different applications.

This module can be used for existing 10Gigabit systems like 10Gigabit Ethernet switches to achieve long distances (up to 120km).

Thus these 10Gigabit systems are not restricted to the installed and often only as short-haul available 10Gigabit optics, but can easily integrated into Metro WDM networks. By means of the integrated 3R functionality (re-amplification, re-shaping, re-timing) for signal processing, the module is perfectly suited for the use in DWDM ring structure in addition to the increase of distances. The SPEED-SINGLELINE XFP also supports 10Gigabit Fibre Channel and STM-64 in addition to 10Gigabit Ethernet, both with and without FEC. Even future data rates between 9.95Gbps and 11.3Gbps can be provided.

The module can be installed in a 19" shelf, the 17-slot rack called SPEED-CARRIER 4.5U and in 19" 4-slot chassis SPEED-CARRIER 1U for monitoring and configuration via SNMP, Telnet and HTTP.

- Protocol transparent between 9.95 and 11.32 Gbps
- 10 Gbps signal repeating for 10 Gigabit Ethernet, 10 Gigabit Fibre Channel and STM-64
- 10 Gbps wavelength conversion: Multimode, Singlemode, DWDM
- Future-proof XFP-technology
- Distance: Up to 120 km
- SNMP, Telnet and Web-management
- 3R functionality

Technical information:

General

- Module for integration in a SPEED-CARRIER platform (1-slot/2-slot)
- Operating temperature: 0°C – 40°C
- Dimensions: 21 x 131 x 170 mm
- 3R function

Interfaces

- Two XFP ports (1 x line, 1 x client)
- Protocol: Transparent and XFP-specified respectively
- Data rate: Between 9.95 and 11.3Gbps depending on XFP type and application used

XFP types

- Optic: LC
 - 10Gigabit Ethernet (with and without FEC)
 - 10Gigabit Fibre Channel (with and without FEC)
 - STM-64 (with and without FEC)

Management

- SNMP, Telnet and HTTP management via SPEED-NMS OE management card
- XFP evaluation information via DMI: Input/output power, wavelength, bit rate, status, supported protocol, temperature

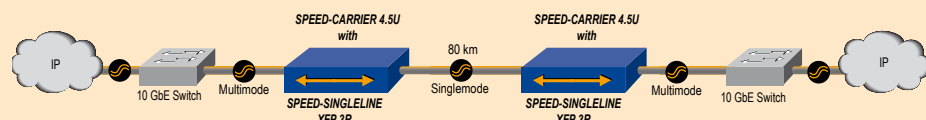
Housing options

- 4-slot SPEED-CARRIER 1U
- 17-slot SPEED-CARRIER 4.5U

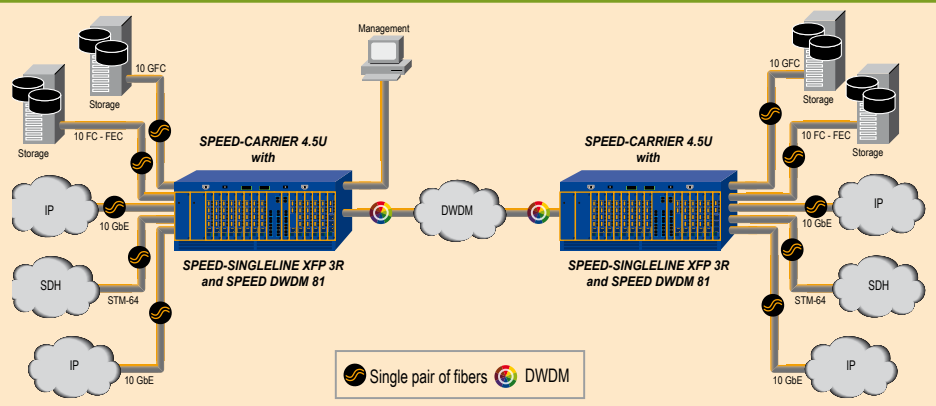
Optional

- Module without 3R function to achieve shorter distances

Increase of distance by means of conversion from MM to SM and regeneration



Wavelength conversion for DWDM networks



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