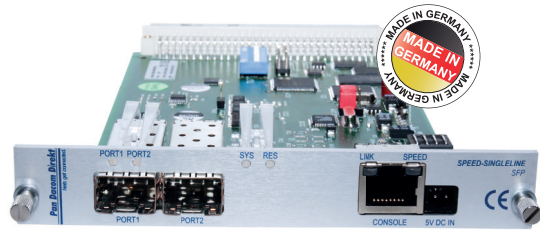


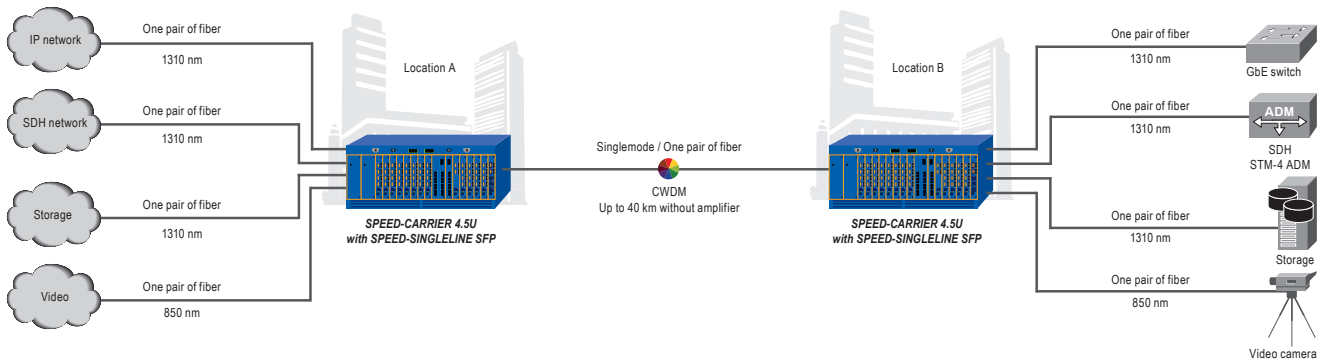
Compact and cost-effective optical Transponder Module for Applications up to 1.25 Gbps

- » Protocol and rate transparent (100 Mbps–1.25 Gbps)
- » Ideal for IP, SDH, video and storage applications
- » An extremely flexible and cost-optimized C/DWDM service module (SFP-based) or basic media converter
- » Distances: Up to 40km without signal regeneration
- » Extremely compact design: only 1-slot in the 19" SPEED-CARRIER platform



Inhouse development

SPEED-SINGLELINE - an active Transponder Module for xWDM Networks

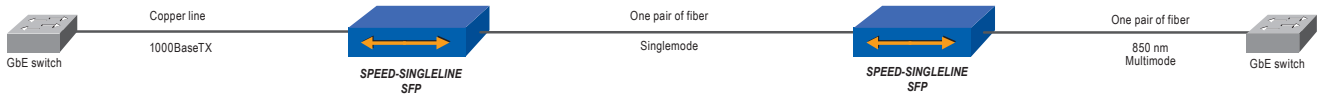


The SPEED-SINGLELINE SFP is a multifunctional and compact 2-port SFP module for the universal use in telecommunication networks. The main field of application is cost-optimized

CWDM and DWDM networks where the SPEED-SINGLELINE SFP, as an intelligent transponder module, converts a transparent data channel to a corresponding CWDM/DWDM wavelength. The module can be

managed locally via Telnet (SNMP) or CLI interface and through SNMP or web by using the optionally available management module.

Media/Interface Converter in a Standalone Housing

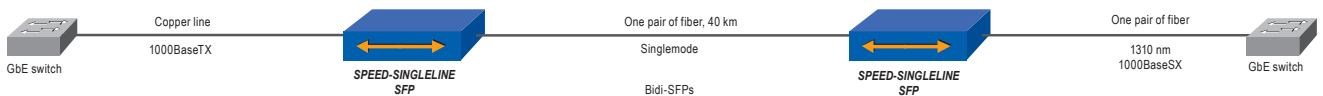


The SPEED-SINGLELINE SFP can be used as a protocol transparent electrical-to-optical

interface converter in e.g. SDH (STM-1), IP (Fast Ethernet, Gigabit Ethernet) or

Storage (ESCON, FICON, Fibre Channel) networks.

One Application transmitted via a single Pair of Fiber without xWDM Multiplexer



This module is ideally suited for implementation in purely optical network infrastructures to convert among various fiber types (multi-mode/single-mode) and wavelength

(e.g. 1310nm to 1530nm) while any protocol (e.g. IP, SDH, video or storage) starting from 100 Mbps up to 1.25Gbps is supported. In addition a single fiber transmission

can be accomplished by using bidirectional transceivers.

Specifications

General

- LED indicators: Unit status, optical link, local loops
- Dimensions (H x W x D): 21 x 131 x 190mm
- Power supply via backplane

SFP Ports

- 2 SFP slots (1 x line, 1 x client)
- Protocol: Transparent or SFP-specific
- Data rate: 100 Mbps–1.25 Gbps depending on the SFP type
- Link-Loss-Carry-Forward (LLCF): Shut-down of client SFP if loss of signal occurs at the line SFP

SFP types

- Use of SFPs according to MSA standard
- Copper / electrical interfaces:
 - IP: Fast Ethernet, Gigabit Ethernet (RJ-45)
 - SDH: STM-1 (BNC)
- Optical (LC):
 - IP: Fast Ethernet, Gigabit Ethernet
 - SDH: STM-1, STM-4
 - Storage: 1 GFC, FICON, ESCON

Management

- Telnet, CLI
- SNMP via SPEED-NMS OE
- Web
- Loops on SFP ports
- SFP management information provided by integrated DMI
 - Input/Output Power (in dB), Temperatur, Wellenlänge, Bitrate, Status, unterstützte Protokolle

Housing types

- 1-slot standalone housing
- 4-slot SPEED-CARRIER 1U
- 16-slot SPEED-CARRIER 5U

Ordering options

- SSL-SFP-SFP-A: SPEED-SINGLELINE SFP