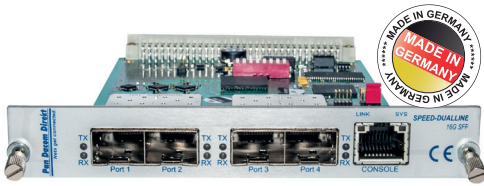


# SPEED-DUALLINE 16G

2-channel 16 Gbps transponder

## Compact 2-channel transponder – multi-service from 1 Gbps up to 16 Gbps



- » 4 x SFP+ ports up to 16 Gbps
- » Ethernet, SDH, OTN and Fibre Channel
- » With protection and integrated cross connection functionality
- » Upgrade from 4 to 8 to 16 Gbps Fibre Channel without interruption
- » 3R signal regeneration for LAN, WAN and SAN

Inhouse development



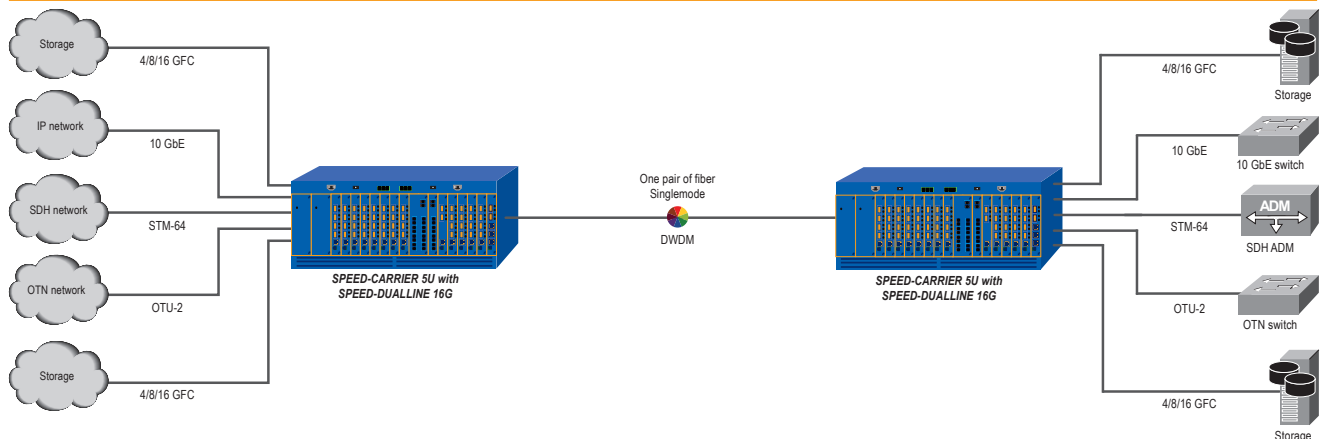
16 GFC DWDM



Brocade Data Center Ready



## 10 Gbps Ethernet, 4/8/10/16 Gbps Fibre Channel and OTU-2 Transponder with five Channels

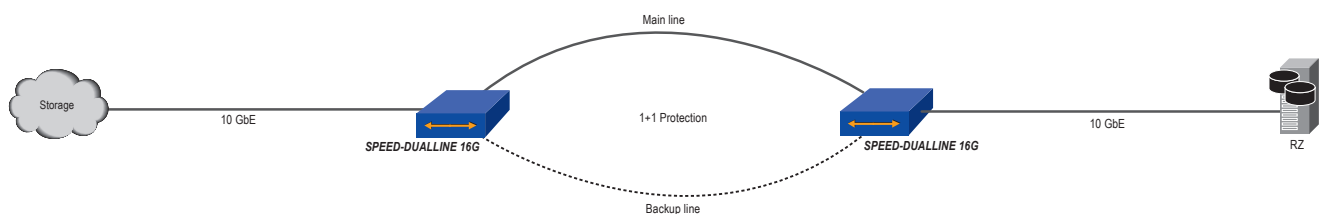


SPEED-DUALLINE 16 G 3R provides a flexible conversion of various protocols, like Ethernet, SDH, OTN und FC to a dedicated CWDM and DWDM wavelength. Hereby each of the five client ports support a multi-rate functionality that allows a conversion

with data rates from 1 Gbps up to 16 Gbps. This capability offers an upgrade function e.g from 4G FC to 16G FC without the need to replace hardware. Due to its integrated 3R functionality the SPEED-DUALLINE 16 G 3R is suitable as repeater

and transmission over extended distances. These features makes the SPEED-DUAL-LINE 16G 3R a future oriented solution to meet upcoming demands.

## 3-times 1 + 1 protection for FC, Ethernet, SDH and OTN with integrated 3R signal regeneration



An integrated cross connect at the SPEED-DUALLINE 16G 3R provides the possibility for a 3-times 1 + 1 protection of WAN, LAN and SAN signals. Through its compact de-

sign this module occupies only two slots within SPEED-CARRIER 4.5U chassis. Furthermore the SPEED-DUAL-LINE 16G 3R can be configured and monitored by using the

SPEED-NMS module via SNMP or web management.

### Specifications

#### General

- LED display: module status, optical link, local loops
- Dimensions (H x W x D): 28 x 131 x 170 mm
- Power supply via backplane
- 1+1 protection
- Protocols: 1/2/4/8/10/16 GFC, FE, GbE, 10 GbE, STM-16/STM-64, OTU-2
- Link-Loss-Carry-Forward: Shutdown of client-SFPs in the event of line SFP signal loss
- Usage of SFP+ according to MSA-standard

#### Management

- Integrated SNMP agent, Telnet, alarm notification via SNMP-Trap
- Possible loop on SFP ports
- SFP+ management information provided by integrated DMI
  - Input/output power (in dB), temperature, wavelength, bit rate, status, supported protocols
- Optional SNMP and web management via SPEED-NMS OE

#### Housing Types

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