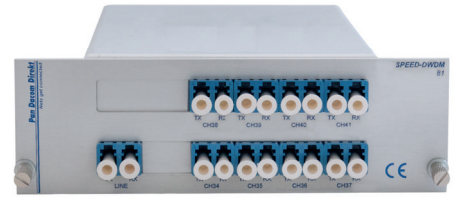
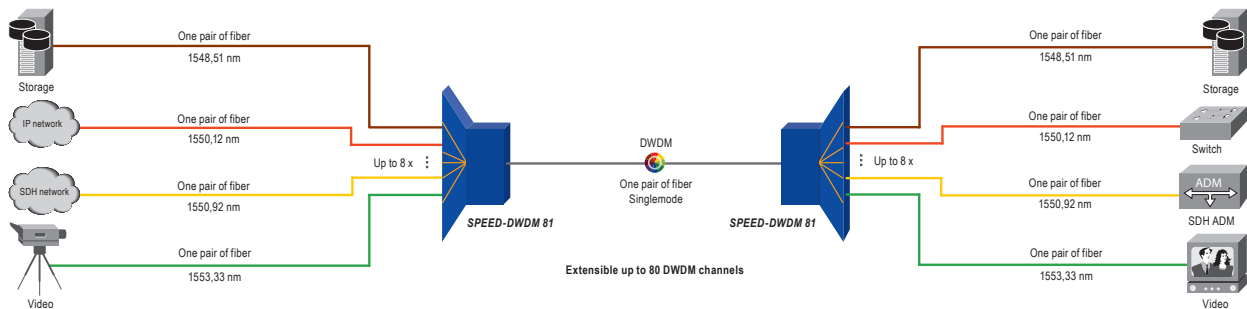


Cost-optimized DWDM/CWDM Integration for additional 8 optical Channels

- » Protocol transparent (10 Mbps to 100 Gbps)
- » Cost-effective alternative to DWDM systems of other vendors
- » 8 x protocol transparent channels using one pair of fiber
- » Easy-to-realize integration in CWDM systems
- » For high or low-speed services
- » No power supply required for multiplexers



8-Channel DWDM Multiplexer for Bandwidths from 10 Mbps to 100 Gbps

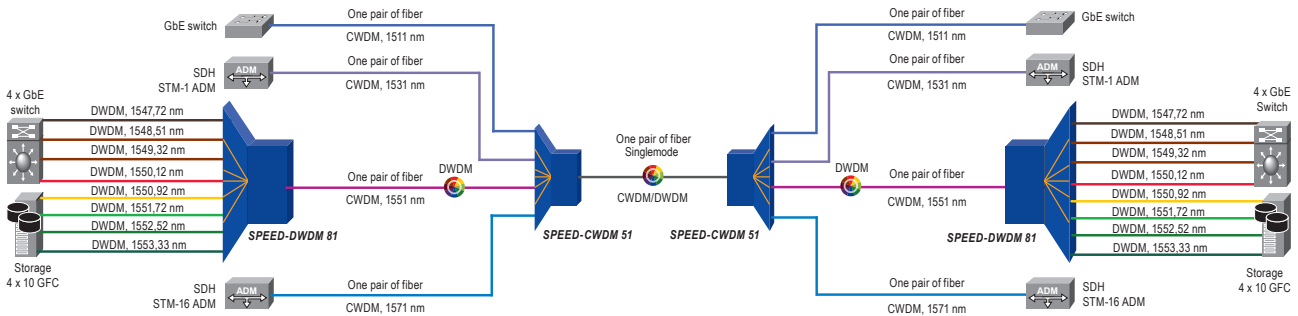


The SPEED-DWDM 81 series represents passive mux/demux modules. By means of an innovative design, these units are an extremely cost-effective alternative for point-to-point connections to existing active DWDM systems. This DWDM multiplexer

is perfectly suited for connecting SFP-based user equipment which can be directly equipped with DWDM wavelengths. In the event that an integration of optics in existing user equipments cannot be accomplished, further SPEED products can be provided to

achieve a cost-effective wavelength conversion. In point-to-point or drop-and-bypass connection up to eight applications can be transmitted without additional efforts by using one pair of fiber.

CWDM/DWDM Integration



Additionally the SPEED-DWDM 81 can be used for cost-effective upgrading of capacity in existing CWDM networks. The eight wavelengths (1547.72 nm | 1548.51 nm | 1549.32 nm | 1550.12 nm | 1550.92 nm | 1551.72 nm | 1552.52 nm | 1553.33

nm) are easily transmitted through a simple patch to an optical output of a CWDM channel (either 1530 nm or 1550 nm). Thus existing passive CWDM systems e.g. a 5-channel multiplexer can be upgraded to 12 applications without the need to substi-

tute installed components. The SPEED-DWDM series provides purely passive operation, needs no power supply and thus is an easy-to-maintain and fail-safe platform.

Specifications

General

- Insertion loss: Max. 4.5 dB
- Passive mux/demux modules without requiring power supply
- Operating temperature: 0 to 70°C
- Storage temperature: 0 to 95% (non-condensing)
- Dimensions (H x W x D): 44.45 x 483 x 260 mm

Line port

- Line type: Single-mode
- Connector: LC/UPC
- Distance: Up to 80 km depending on power budget of user equipment

Client port (ordering options)

- 8 x single-mode
- Wavelengths:
 - SPEED-DWDM-81C : DWDM Channel 30-37
 - SPEED-DWDM-81-16/23-A : DWDM Channel 16-23
 - SPEED-DWDM-81-25/32-A : DWDM Channel 25-32

- SPEED-DWDM-81-34/41-A : DWDM Channel 34-41
- SPEED-DWDM-81-43/50-A : DWDM Channel 43-50
- SPEED-DWDM-81-52/59-A : DWDM Channel 52-59
- Connector: LC/UPC

Applications

- CWDM integration via 1530 nm or 1550 nm channel
- High-speed: ATM, SONET/SDH, Ethernet/Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet, Fibre Channel, FICON, ESCON etc.
- Low-speed: n x 64 kbps applications, Leased Lines, E1 etc.

Housing types

- 4-slot SPEED-CARRIER 1U
- 6-slot SPEED CARRIER Mounting Rack 1U (passive)
- 16-slot SPEED-CARRIER 5U
- Further housing types (e.g. rail mounting) or number of channels (e.g. 20 x DWDM wavelengths in 1U) are available on request

Ordering options

- SPEED-DWDM 81C-A
- SPEED-DWDM 81C with 8 channels (Channel 30 to 37) (further channels on demand)

Combinable SPEED products

- SPEED-MODEM FO
- SPEED-SINGLELINE XFP
- SPEED-DUALLINE SFP
- SPEED-SINGLELINE XFP 3R
- SPEED-DUALLINE SFP 3R
- SPEED-DUALLINE FC XFP
- SPEED-DUALLINE SFP 3R PROTECT
- SPEED-DUALLINE 10GE
- SPEED-SINGLELINE SFP
- SPEED-AMP EDFA
- SPEED-MUX 10G
- SPEED-AMP RAMAN
- SPEED-MUX 10GE
- SPEED-DUALLINE FC SFP