

2-channel passive WDM multiplexer

Cost-effective passive multiplexer system with two optical channels (1310nm, 1550nm)



The SPEED-WDM 21 is a purely passive, optical mux/demux unit. Using the innovative concept it provides a cost-effective alternative to transmit only two applications over a fiber link in a point-to-point connection.

This WDM unit is perfectly suited for connecting up to two existing network units that can be equipped directly with a 1310nm or 1550nm SFP. In the event that an integration of SFP cannot be realized, other SPEED products like the SPEED-DUALLINE SFP can be used for a cost-effective wavelength conversion.

The optical output signals (1310nm or 1550nm) of both network units are connected to the SPEED-WDM 21 by patch cable to be multiplexed on a pair of fibers (link) to save fibers.

The SPEED-WDM 21 is designed for the installation in all SPEED housings like the 1-slot stand-alone housing, 4-slot SPEED-CARRIER 1U, SPEED-COMPACT CWDM or SPEED-CARRIER 4.5U (16+1 slots).

The optical module SPEED-WDM 21 is a purely passive module without the need of additional power for easy maintenance and fail-safe operation.

- 2 x protocol transparent channels using one pair of fibers
- For combination with other SPEED products (on SFP-basis)
- For high and low-speed services
- Ultimate flexibility: Rack mount card to be used in the 19"-shelf or in a stand-alone housing
- Purely passive

Technical characteristics:

General

- Attenuation without connector: 2.5dB link loss
- Passive mux/demux unit without power supply
- Relative humidity: 0% to 95% (non-condensing)
- Dimensions (H x W x D): 28 x 131 x 219mm

Line

- Line type : Singlemode
- Connector: SC
- Distance: Depending on the power budget of the network units

Client side

- Connector: LC/PC
- 2 x Singlemode (1310nm, 1550nm)

Applications

- High-speed: ATM, SONET/SDH, Ethernet/Fast Ethernet, Gigabit Ethernet, 10G Ethernet, Fibre Channel, FICON, ESCON etc.
- Low-speed: n x 64kbps applications, leased lines, E1, ISDN etc.

Combination with other SPEED products

- SPEED-MODEM FO
- SPEED-MUX FO155
- SPEED-DUALLINE SFP
- SPEED-SINGELLINE

Housing options

- 1-slot stand-alone housing
- 4-slot SPEED-CARRIER 1U
- SPEED-COMPACT CWDM
- 16 slot 19" SPEED-SHELF
- 16+1 slot 19" SPEED-CARRIER 4.5U

Example of use:

Cost-effective point-to-point solution to transmit two applications over one fiber link

