5/9-channel single fiber CWDM multiplexer

SPEED-CWDM Single Fiber

Fiber-saving single fiber operation of the SPEED-CWDM series

- Protocol transparent (100 Mbps to 10 Gbps)
- Ideal for 1-fiber applications
- Diverse transmit and receive wavelengths per application
- Cost-effective use of standard optics (e.g. SFP)
- To be used with all SPEED-CWDM products
- Purely passive – no power supply required
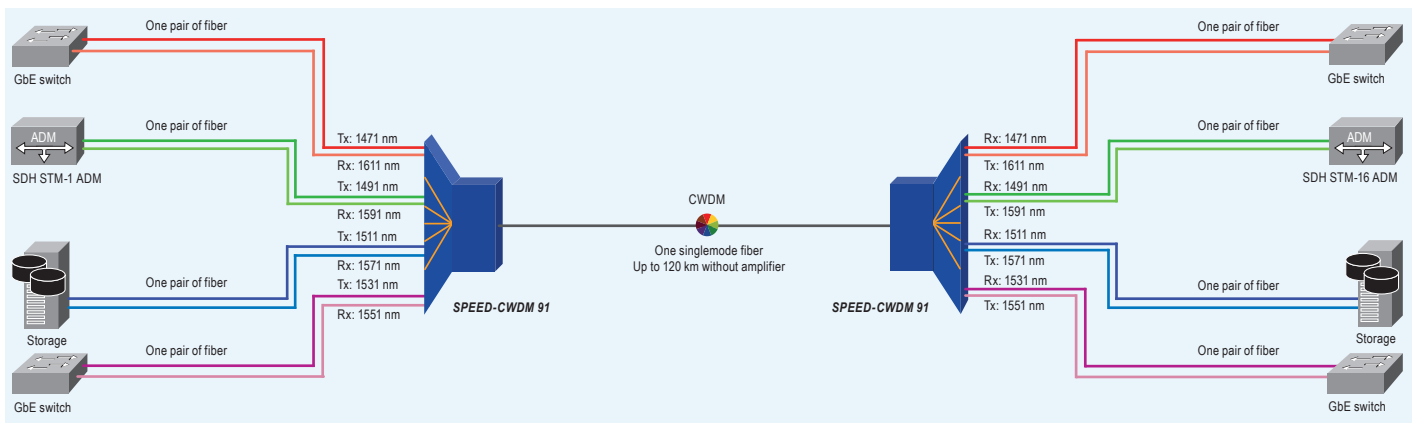
Green IT

4-channel single fiber operation using SPEED-CWDM 91

Optical single fiber multiplexer transmit up to four applications using only a single fiber instead of a pair of fibers. As a result e.g. a Gigabit Ethernet switch transmits information by using the wavelength 1471 nm while the remote site receives data at the wavelength 1611 nm. By means of diverse wavelengths for transmitting and receiving data, a transfer over only a single fiber can be accomplished. This leads to a fiber-saving network design as multiple applications can be transmitted over a single fiber. Depending on the type of chosen optics, a distance up to 120 km can be realized without the need of amplification.

The entire SPEED-CWDM series is suitable for the use either in single fiber or dual fiber network infrastructures without any hardware adaptation. This provides an user a most advanced flexibility and a visible protection of investments.

Specifications

General
- Maximum link attenuation (mux and demux):
  - SPEED-CWDM 41: 3 dB
  - SPEED-CWDM 91: 4 dB
- Passive mux/demux modules without requiring power supply
- Operating temperature: –40 to 85°C
- Humidity: 0 to 95% (non-condensing)
- Dimensions (H x W x D):
  - SPEED-CWDM 41: 21 x 131 x 190 mm
  - SPEED-CWDM 91: 41 x 131 x 190 mm

Line port
- Line type: single-mode
- Connector: LC
- Distance: Up to 120 km depending on power budget of user equipment

Client port (ordering option)
- Connector: LC/UPC
- SPEED-CWDM 41 (SCWDM-41-B):
  - 4 x Singlemode (1511 nm, 1531 nm, 1551 nm, 1571 nm)
  - 1 x 1310 nm data-, expansion- or monitoring channel
- SPEED-CWDM 91 (SCWDM-91-B):
  - 8 x Singlemode (1471 nm, 1491 nm, 1511 nm, 1531 nm, 1551 nm, 1571 nm, 1591 nm, 1611 nm)
  - 1 x 1310 nm data-, expansion- or monitoring channel

Applications
- High-speed: ATM, SONET/SDH, Ethernet/Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet, Fibre Channel, FICON, ESCON etc.
- Low-speed: n x 64 kbit/s application, Leased Lines, E1, ISDN etc.

Housing types
- 4 slot SPEED-RACKHOUSING
- 16 slot SPEED-CARRIER 5U
- 1 slot standalone
- 4 slot SPEED-CARRIER 1U

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

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