

Cost-effective and optimized-to-attenuation add&drop of applications

- Ideal for C/DWDM ring structures or daisy chains
- Compact 1-slot module for integration in a stand-alone or 19" SPEED-CARRIER housing
- Customized number of channels and wavelengths available
- Optimized-to-attenuation and costs

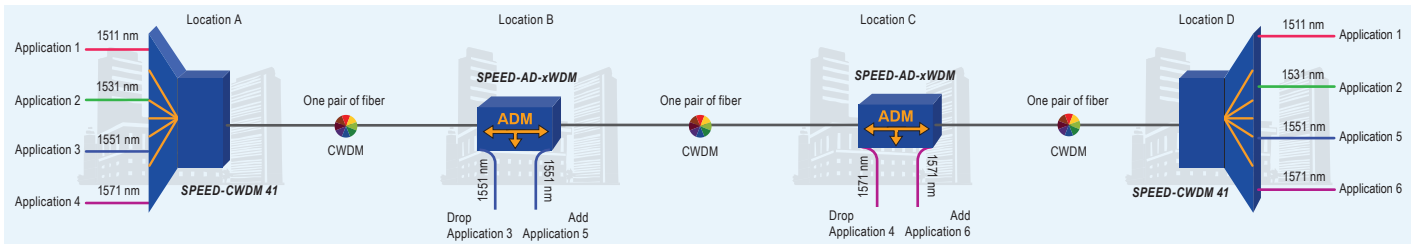


Multiple use of C/DWDM wavelengths

The SPEED-AD-xWDM is a compact add&drop multiplexer for CWDM and DWDM applications. A dedicated wavelength can be dropped out of a fiber optic link that parallel transmits multiple C/DWDM wavelengths by using an add&drop multiplexer.

All incoming wavelengths are received at one of the both line ports in such a daisy-chain structure. The required wavelength/application is dropped by the so-called "drop"-client port. This in the further course unused wavelength can be connected with a new application by the so-

called "add"-port. The new application and the remaining, non-dropped wavelengths are conjoined transmitted to the next site by using the second line port.

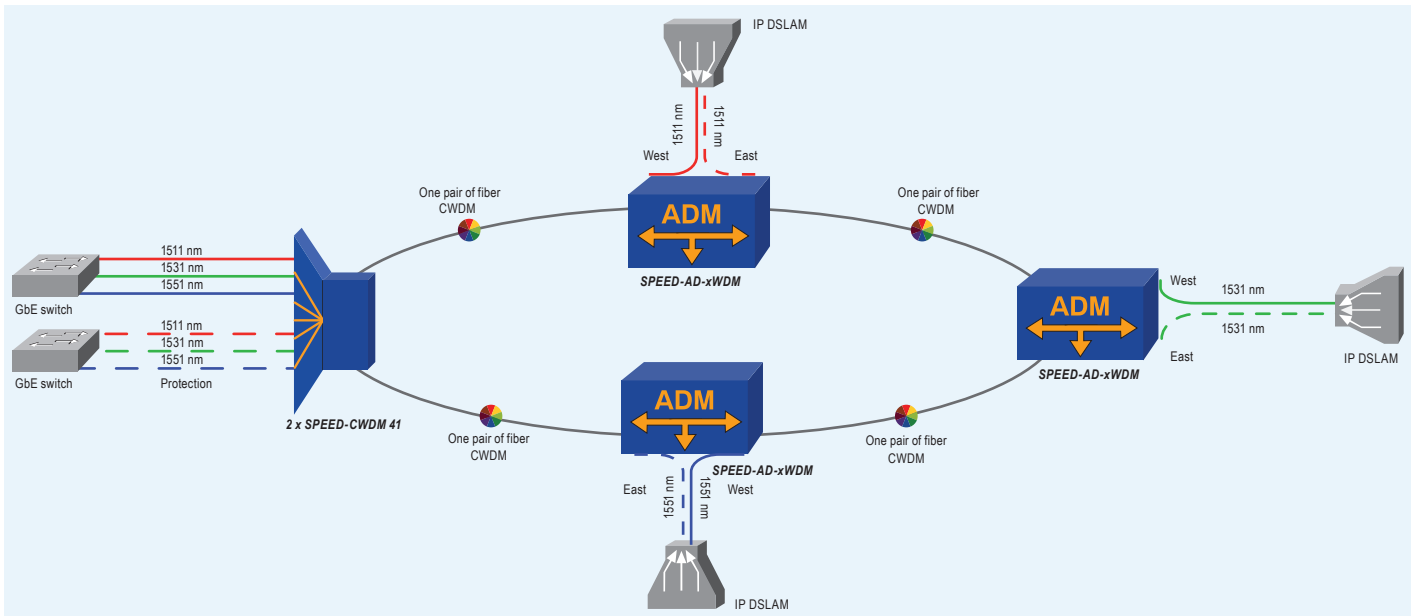


Add&drop C/DWDM in a ring: DSLAM backhauling and shift-in

Add&drop multiplexer are often used in ring structures requiring longer distances as construction-conditioned significantly improved attenuation

values can be achieved compared to standard CWDM and DWDM multiplexers. A ring structure enables to realize a backup scenario in

addition to an actual transmission. This back-up scenario assures the data transmission – even after a fiber break between two sites.



Specifications

General

- Attenuation: Depending on the number of channels Using a 3-channel put-through and a 1-channel add&drop: Approx. 1dB (without connector)
- Passive mux/demux modules without requiring power supply
 - Humidity: 0 to 95% (non-condensing)
 - Dimensions: (H x B x T): 21 x 131 x 219 mm

Line port

- Line type: single-mode
- Connector: LC
- Distance: Depending on power budget of user equipment

Client port

- 2 x single-mode
- Wavelengths: C/DWDM on request
- Connector: LC/PC

Applications

- CDWM/DWDM ring structure or daisy chain
- High-speed: ATM, SONET/SDH, Ethernet/Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet, Fibre Channel, FICON, ESCON etc. n x 64 kbit/s application, Leased Lines, E1, ISDN etc.
- Low-speed:

Housing types

- 4 slot SPEED-RACKHOUSING
- 16 slot SPEED-CARRIER 5U
- 4 slot SPEED-CARRIER 1U
- 1 slot stand-alone housing

Ordering option

- S-CAD-XX-B CWDM-AD 1 channel
- S-CAD-XX/YY-B CWDM-AD 2 channel
- S-CAD-XX/YY/ZZ-B CWDM-AD 3 channel
- S-DAD-XX-B DWDM-AD 1 channel
- S-DAD-XX/YY-B DWDM-AD 2 channel
- S-DAD-XX/YY/ZZ-B DWDM-AD 3 channel

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
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