

# CWDM-1U-1310-Cx TO Cy CWDM-1UZ-Cx TO Cy MULTIPLEXER/DE-MULTIPLEXER

## Advantages

- Passive solution
- Optical SM 1310 + x lambda
- 1+4 Lambdas
- 1+8 Lambdas
- 1+10 Lambdas
- 1310nm Δ 50nm
- Lambda Δ 20nm
- Connector SC/PC to Lambda or to WAN

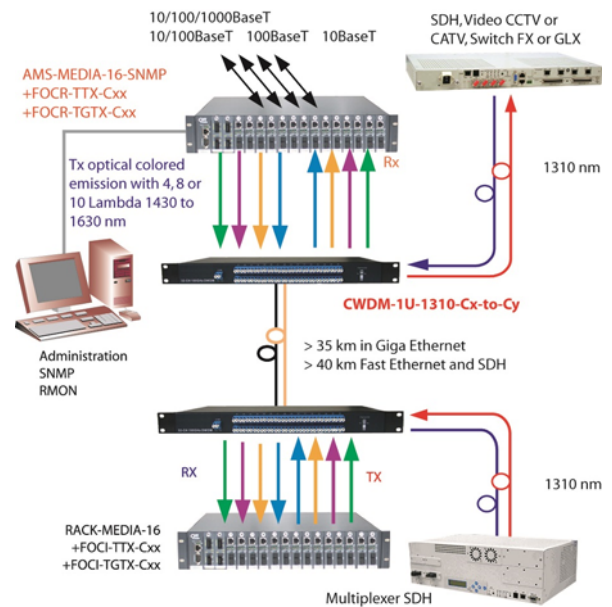
## AN ECONNOMICAL SOLUTION OF MULIPLEXING

The **CWDM-1U-1310-Cx to Cy** is a passive system witch ones can multiplex and demux 5, 9 ou 11 optical signal on one fiber. One fiber is used for each direction. This solution for MAN or campuses infrastructure increase the capability of the fiber.

This **CWDM-1U-1310-Cx to Cy** use the optical signal from a standard 1310 nm Δ 50nm signal from any standard device (FO modem, SDH, video modem ....) and 4, 8 or 10 colored optical signal at 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 with Δ 20nm. This colored signal or Lambda are issue from CXR CWDM devices or other vendor.

This system support up to 11 signals for 100FX, 1000LX, SDH STM1-STM4-STM16 or video together.

All lines are completely independent and absolutely secure by the difference of wavelength.



### CXR CWDM active equipments supplying CWDM Lambda:

FOCI-TTX-FX-25D-Cxx Media conversion 10/100BT to 100FX with 25dB budget

FOCI-TGTX-LX-25D-Cxx Media conversion 10/100/1000BT to 1000FX with 25dB budget

Chassis AMS-MEDIA16-SNMP with SNMP for media conversion card

FOCIR-TTX-FX-25D-Cxx Conversion 10/100BT to 100FX , budget 25db

FOCIR-TGTX-LX-25D-Cxx Conversion 10/100/1000BT to 1000FX, budget 25db

Modems and E1/E3 TDM multiplexer

FO-E1T1-SFP FO modem G703/G704 E1/T1 with one SFP-E1-SMnn-Cxx (end 2008)

MX-E3T3-16E1-SFP 16E1 to E3 multiplexer with one SFP-E3-SMnn-Cxx (Q1 2009)

SDH multiplexers

HX9400S, HX9400R et HX9500R STM1/4 with SFP-STMx-Cxx

HX9416R STM1/4/16 with **SFP-STM16-Cxx (Q2 2009)**



## SPÉCIFICATIONS

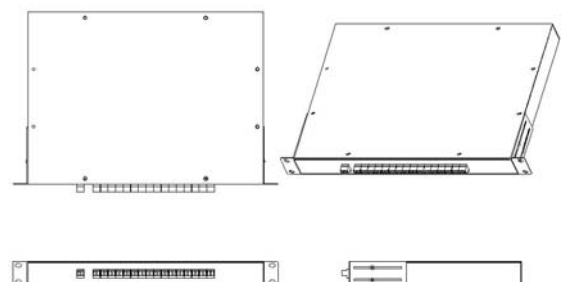
| Paramètres                        |   | Unité |
|-----------------------------------|---|-------|
| Center Wavelength                 | 1310+/-50 , 1431,1451,1471,1491,1511,1531,1551,1571,1591,1611 | nm    |
| Number of channels                |   |       |
| <b>CWDM-1U-1310-C9 to C12</b>     | 1310 & 4-CH CWDM  |       |
| <b>CWDM-1U-1310-C11 to C18</b>    | 1310 & 8-CH CWDM  |       |
| <b>CWDM-1U-1310-C9 to C18</b>     | 1310 & 10-CH CWDM   |       |
| Channel Spacing                   | 20  | nm    |
| Pass Band                         | 1310nm+/-50; CWDM :CWL ± 7.0                                  | nm    |
| Max Insertion Loss                |   |       |
| CWDM-1U-1310-C9 to C12            | ≦2.0  | dB    |
| CWDM-1U-1310-C11 to C18           | ≦3.2  | dB    |
| CWDM-1U-1310-C9 to C18            | ≦4.0  | dB    |
| Insertion loss for a pair         |   |       |
| CWDM-1U-1310-C12 to C15           | ≦3.0  | dB    |
| CWDM-1U-1310-C11 to C18           | ≦4.2  | dB    |
| CWDM-1U-1310-C9 to C18            | ≦5.0  | dB    |
| Passband Ripple                   | ≦0.5  | nm    |
| Uniformity                        | ≦1.0  | dB    |
| Return Loss                       | ≧45   | dB    |
| Directivity                       | ≧50   | dB    |
| Adjacent Channel Isolation        | ≧30   | dB    |
| Non- Adjacent Channel Isolation   | ≧40   | dB    |
| Polarization Dependent Loss (PDL) | ≦0.15   | dB    |
| Max Power Handling                | 500   | mW    |
| Operating Temperature             | -10~70  | °C    |
| Storage Temperature               | -40~85  | °C    |
| Connector Adaptor Type            | SC/PC   |       |
| Dimension                         | 1U, 210mm depth   | mm    |



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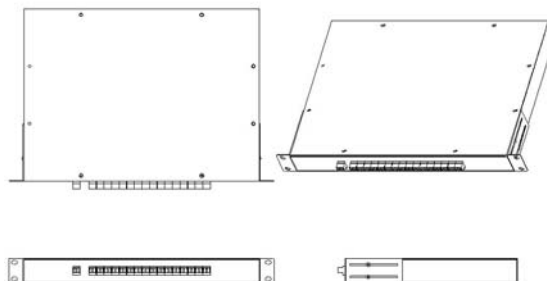
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## SPÉCIFICATIONS

| Paramètres                      |   | Unité |
|---------------------------------|---|-------|
| Center Wavelength               | 1270/1290/1310/1330/1350/1410<br>/1430/1450/1470/1490/1510<br>/1530/1550/1570/1590/1610 | nm    |
| Number of channels              |   |       |
| <b>CWDM-1US-C11-18-LC</b>       | 4-CH CWDM   |       |
| <b>CWDM-1US-C1-5/8-18LC</b>     | 16-CH CWDM  |       |
| <b>CWDM-1UD-C1-5/8-18LC</b>     | 16CH CWDM   |       |
| Central Wavelength              | ITU-T Grid  |       |
| Bandwidth (@0.5dB Passband)     | ≥14   | nm    |
| Channel Passband                | λITU±6.5  | nm    |
| Ripple                          | ≤0.3  | dB    |
| Insertion Loss                  |   |       |
| CWDM-1US-C11-18-LC              | Typ. 1.6 (Max 1.8)  | dB    |
| CWDM-1US-C1-5/8-18LC            | Typ. 3.2 (Max 5.0)  | dB    |
| CWDM-1UD-C1-5/8-18LC            | Typ. 3.2 (Max 5.0)  | dB    |
| Polarization Dependent Loss     |   |       |
| CWDM-1US-C11-18-LC              | ≤0.15   | dB    |
| CWDM-1US-C1-5/8-18LC            | ≤0.25   | dB    |
| CWDM-1UD-C1-5/8-18LC            | ≤0.25   | dB    |
| Directivity                     | ≥50   | dB    |
| Adjacent Channel Isolation      | ≥30   | dB    |
| Non- Adjacent Channel Isolation | ≥45   | dB    |
| Return Loss                     | ≥45   | dB    |
| Operating Temperature           | -5~+70  | °C    |
| Storage Temperature             | -40~+85   | °C    |
| Connector Adaptor Type          | LC/UPC  |       |
| Dimension                       | 1U, 210mm depth   | mm    |



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