

C-Series Optical CWDM Multiplexers

Introduction

The C-series is an equivalent passive Mux/Demux and OADM portfolio to Cisco Systems second generation of passive CWDM devices. The modules multiplex and demultiplex optical CWDM wavelength and increase fiber capacity by a factor of 8. The C-series offers identical functional design but with improved performance and interoperability. Cisco's network design rules can be applied. They are fully compliant to ITU G.694.2 and ITU G.695.

The modules are based on a standard LGX building practice and offer an easy installation and connection process. Two modules can be mounted into a 19" or 23" bracket. Wavelength colour coding to industry practice and in-line with CWDM devices from Cisco Systems.

The C-series consists of an 8 channel Mux/Demux module, three 4 channel Optical Add/Drop Multiplexers (OADMs) and eight single-wavelength dual channel OADMs. Each module offers low insertion loss, optical monitoring ports tapping 2% of the optical light signals allowing live monitoring and troubleshooting of the CWDM signals, as well as the mixing of 1310 nm CWDM signals on the same fiber infrastructures.

Applications

All optical communication systems such as:- Gigabit Ethernet, SDH/SONET, ATM, ESCON, Fibre Channel, FTTx and CATV.

Features & Benefits

- Multiplexing of up to 8 CWDM wavelengths
- Low insertion loss
- Compliant to ITU G.694.2 and G.695
- 2% Monitoring ports on every network port
- 1 and 4 channel OADM's
- LC/UPC connectors
- 1300 nm transparency on OADMs for legacy traffic
- 1U Low profile modular design
- passive, no electric power is required
- extremely reliable (MTBF ca. 500 years)



Mechanical Specification

Material: Aluminium
 Weight: 0.6 kg
 Dimensions: W212 x H43 x D192 mm
 19" and ETSI mountable

Specifications Optical

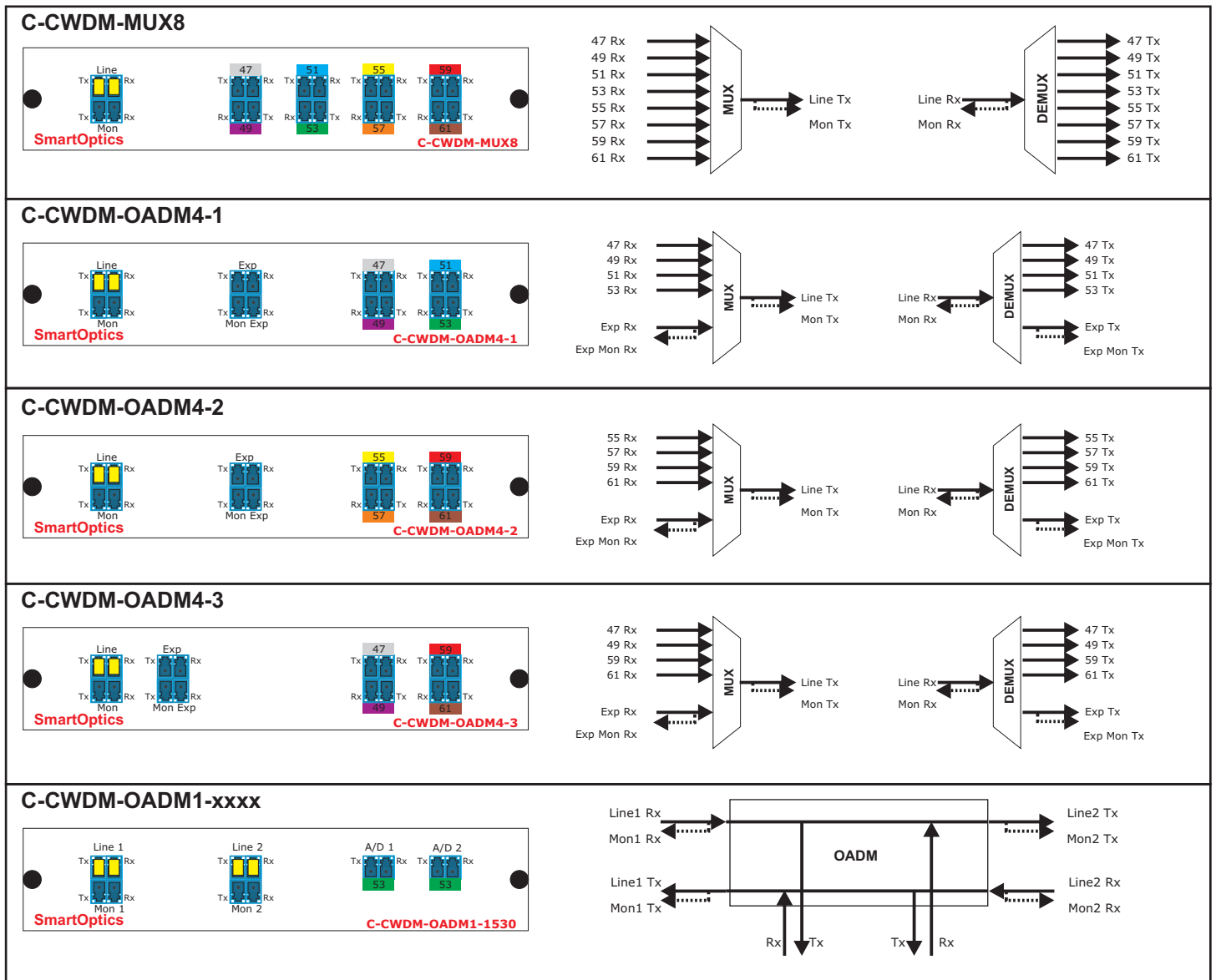
Operating Wavelengths: 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm
 Connector Interface: LC/UPC
 Operating Temperature: 0° C to +70° C

Insertion Loss: 2.0 dB for C-CWDM-MUX8
 1.8 dB for C-CWDM-OADM4-x
 1.5 dB for C-CWDM-OADM1-xxxx

Pass port: 2.1 dB for C-CWDM-OADM4-x
 1.5 dB for C-CWDM-OADM1-xxxx

Monitoring port: 23 dB

Front panel layout and wiring diagram:



Ordering Information:

- C-CWDM-MUX8: 8 channel Mux/Demux, LC connector interfaces, 2% monitoring port 1470, 1490, 1510, 1530, 1550, 1570, 1590 and 1610 nm
- C-CWDM-OADM4-1: 4 channel OADM, LC connector interfaces, 2% monitoring port 1470, 1490, 1510 and 1530 nm
- C-CWDM-OADM4-2: 4 channel OADM, LC connector interfaces, 2% monitoring port 1550, 1570, 1590 and 1610 nm
- C-CWDM-OADM4-3: 4 channel OADM, LC connector interfaces, 2% monitoring port 1470, 1490, 1590 and 1610 nm
- C-CWDM-OADM1-xxxx: Single-wavelength 2 channel OADM, 2% monitor ports xxxx = 1470, 1490, 1510, 1530, 1550, 1570, 1590 or 1610 nm
- T-3001-19: 19" mounting bracket for 2 modules of T-series or C-series
- T-3001-23: 23" mounting bracket for 2 modules of T-series or C-series