

CUBO

482 mm

NETWORK CUBE > CWDM-OADM-3 Module

C-1710-Rev. A

Product Description

- CWDM module for integration in 1 slot of the CUBO NETWORK CUBE WDM-MODULAR-Shell (C-1608).
- The module contains two pieces of three channel Add&Drop components for redundant ("Eastand-West-traffic") OADM ring architectures.
- Each Add&Drop component to add and drop the same one CWDM channel (any out of 1271nm to 1611nm); these correspond to the transceiver wavelengths from 1270 and 1610 nm; the rest of the band will be transmitted.
- The CWDM multiplexers are compliant with the ITU G.694.2 standard and Telcordia GR1221 (former Bellcore) standard and are designed to meet NEBS level 3.
- The System interoperates with any router, switch, DSLAM, SFP and GBIC, which supports the CWDM ITU G.694.2 standard.

Product Description: NETWORK CUBE CWDM-OADM-3 Module

C-1710 Product Code

Channel Code 1: -AA (choose from table below)

Channel Code 2: -BB (choose from table below)

Channel Code 3: -CC (choose from table below)

Connector Code: -XY (choose from table below)

Revision Level: -Rev.A

Example Order Code: C-1710-47-49-51-15-Rev.A for a module with 1471, 1491 and 1511 nm add&drop channels, SC/PC on all common / trunk ports and LC/PC on all add&drop ports

(X) Common ports (Y) Add&drop ports	Code
SC/PC	1
FC/PC	2
SC/APC	3
FC/APC	4
LC/PC	5
MU/PC	6
E2000	7
E2000/HRL	8
ST/PC	9

		L	_
Channel	Code	Channel	Code
1271 nm	27	1451 nm	45
1291 nm	29	1471 nm	47
1311 nm	31	1491 nm	49
1331 nm	33	1511 nm	51
1351 nm	35	1531 nm	53
1371 nm	37	1551 nm	55
1391 nm	39	1571 nm	57
1411 nm	41	1591 nm	59
1431 nm	43	1611 nm	61

NETWORK-Cubes simplify your

Revision History				
No.	Description	Date	Created by	Approved by
Α	Initial release	31.03.06	Thomas Paatzsch	
B	1	T	1	1







NETWORK CUBE > CWDM-OADM-3 Module

C-1710-Rev. A

General Specifications		
Operating Temperature	+0°C to +70°C	
Storage Temperature	-40°C to +80°C	
Max. optical Power	< 250 mW	
Fiber Type	SMF-28 compatible	
Optical Adapters Common ports add &drop ports	to be seleceted by customer via order code to be seleceted by customer via order code	

Optical Performance of each of the 2 components of 3 channel Add&Drop			
Number of channels	nels CWDM: 3 add channel, 3 drop channel, 15 pass channels		
Operating Channel			
CWDM add & drop channel (C1, C2, C3)	any channels out of 1271, 1291, 1311,, 1611 nm (to be definde via order code)		
Channel Width			
CWDM channels	> 13 nm (around center wavelength)		
Insertion Loss ¹			
In to Drop	< 2.0 dB (including connectors and adapters)		
Add to Out	< 2.0 dB (including connectors and adapters)		
In to Out	< 2.8 dB (including connectors and adapters)		
Isolation			
CWDM adjacent ch's at CWDM drop port	> 30 dB		
CWDM non-adj. ch's at CWDM drop port	> 40 dB		
Add channels at drop ports	> 50 dB		
Drop channels at output port	> 27 dB		
Isolation spectral range	1260 nm to 1620nm		
Optical Return Loss	> 45 dB (for the component, also depends on connectors)		
Polarization Dependent Loss	< 0.2 dB		

Notes:



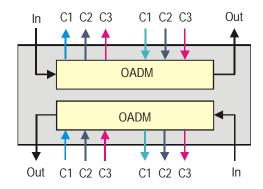


NETWORK CUBE > CWDM-OADM-3 Module

C-1710-Rev. A

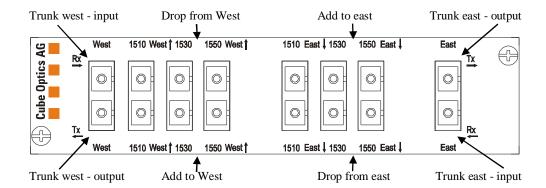
Package Dimensions and Front Plate design

Logical setup:



Connection Scheme:.

- The add and drop ports are marked with the corresponding transceiver wavelengths. (Instead of e.g. "1511" it is printed "1510" etc.).
- The common ports are marked as "Trunk" where "Rx" is the Add&Drop input and "Tx" the Add&Drop output, both to be connected to the transmission line.
- All ports are equipped with adapters to be defined by the customer via order code.
- The drawing below shows the front plate of an 1510 + 1530 + 1550 nm Add&Drop, other wavelength version is equivalent.



Please, note that the actual layout depends on the chosen connector type as well as other factors. However, the principal scheme stays the same.

Layout and dimensions (see also next page)

Width: 166 / 182 mm Height: 25.75 / 44 mm Depth: 118.5 / 125.2 mm

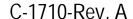
- The color of the module is light gray
- All fonts and labels are printed in black.

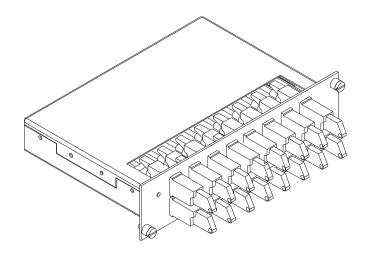




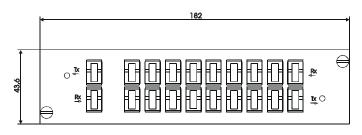
CUBO

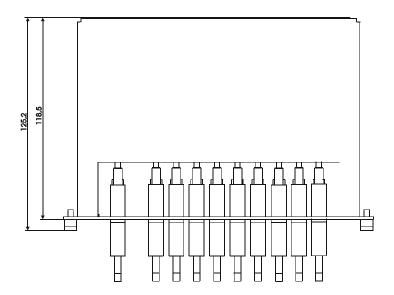
NETWORK CUBE > CWDM-OADM-3 Module





Please, note that the drawings shown here only show the dimensions and do not the specific configuration of the module!





Corporate Office: Cube Optics AG Robert-Koch-Strasse 30 55129 Mainz Germany

Fon: +49-6131-69851-0 Fax: +49-6131-69851-79 e.mail: sales@cubeoptics.com

www.cubeoptics.com

