

NETWORK CUBE
LAN WDM-MUX-4 100G Module

C-2473_Rev.A

Description

- Passive WDM module for integration in one slot of the CUBO NETWORK CUBE WDM-Modular-Shell (C-2169).
- The module contains two pieces of 4 channel LAN WDM multiplexers.
- The WDM multiplexers to multiplex and de-multiplex 4 LAN WDM channels with LAN WDM spacing.
- The WDM multiplexers are compliant according to 100Gbps IEEE 802.3ba standard.
- The system interoperates with any router, switch, DSLAM, SFP and GBIC, which supports the IEEE 802.3ba standard.

- Product Description: NETWORK CUBE LAN WDM-MUX-4 100G Module
- Product Code: C-2473
- Connector Code: -XY (choose from table) →
- Revision Level: -Rev.A

(X) Common ports (Y) CWDM ports	Code
SC/PC	1
FC/PC	2
SC/APC	3
FC/APC	4
LC/PC	5
LC/APC	B

Example Order Code: **C-2473-BB-Rev.A** for a LAN WDM module with LC/APC on all ports.



Revision History

No	Description	Date	Created by
A	Initial release	17.08.11	Islah Touhtouh
	Front Plate design with FC connector	20.08.13	Susmita Adhikari
	Front Plate design with different connector types	27.08.13	Susmita Adhikari

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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	Ø 9 / 125 / 250µm
Optical Adapters	All ports to be selected by customer via order code	

Optical Performance

Number of channels	4	
Operating Channel	L0-L3	
	1295.56 / 1300.05 / 1304.58 / 1309.14nm	
Channel Width		
L0	1294.53 - 1296.59 nm	
L1	1299.02 - 1301.09 nm	
L2	1303.54 - 1305.63 nm	
L3	1308.09 - 1310.19 nm	
Insertion Loss	max ¹	typical ²
	< 1.9 dB	
Isolation	Mux	Demux
WDM adjacent channel	> 15 dB	> 25 dB
WDM non-adjacent channel	> 15 dB	> 35dB
Optical Return Loss	> 45 dB (for the component, also depends on connectors)	
Directivity	> 50 dB	
Polarization Dependent Loss	< 0,5 dB	

¹ Max. insertion loss over channel bandwidth, valid over full operating temperature range and all states of polarization with optical connectors. The typical connector loss is 0.4 dB for a pair of connectors.

² Typical insertion loss is defined as typical value over channel bandwidth, full operating temperature range and all states of polarization including optical connectors. Typical values have been derived with statistical methods from actual production data to reflect the majority of cases.

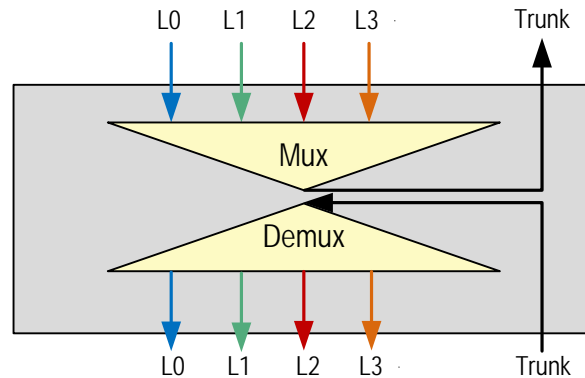
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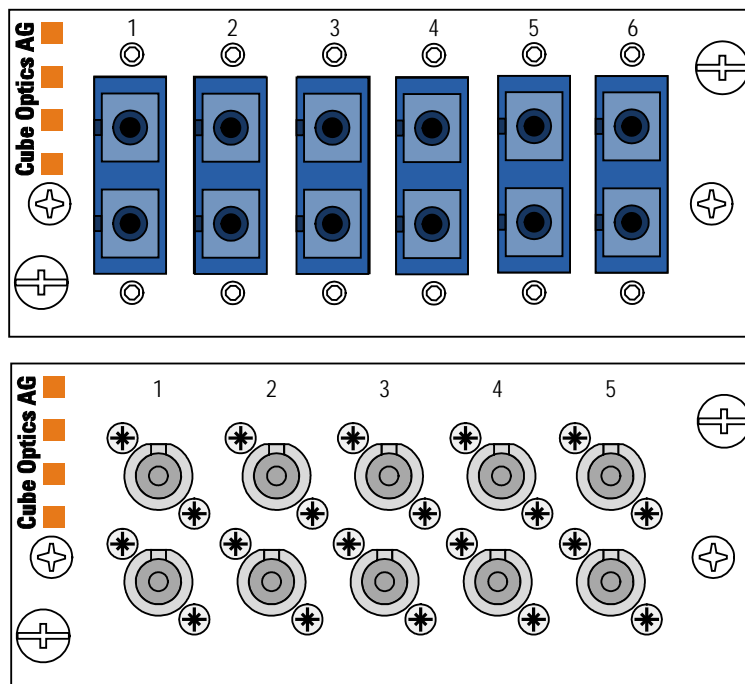
Package Dimensions and Front Plate design

Logical setup



Connection Scheme

- The ports are marked with "01", "02", "03"....
- Actual port assignment displayed on a label on the top side of the housing.
- All ports are equipped with adapters as defined by customer via order code.



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

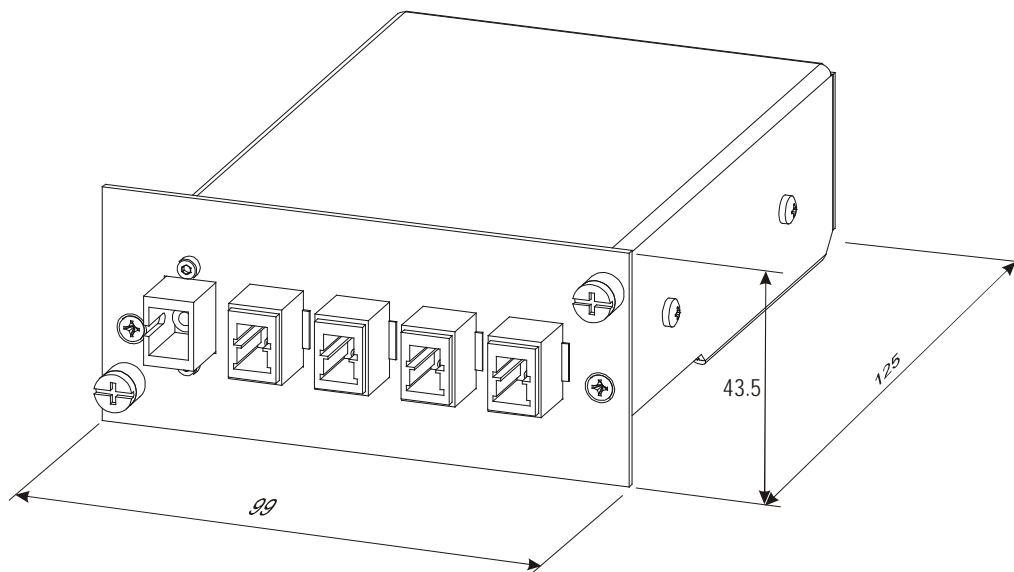
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Layout and dimensions

- Width: 99 mm
- Height: 43.5 mm
- Depth: 125 mm
- The color of the module is light gray (color code RAL7035)
- All fonts and labels are printed in black



Please note, that the displayed image only shows the physical dimensions and does not necessarily correspond to the specific configuration of the module!

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is certified according to ISO 9001.

WAIVER

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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