

### NETWORK CUBE

### DWDM-OADM-8 Unit

C-2427\_Rev.A

#### Product Description

- Passive WDM unit for 19" rack type installation (1HU).
- The unit contains two pieces of 8-channel DWDM 100GHz Add&Drop (eight add and eight drop ports) components.
- DWDM Add&Drop to add and drop the same eight DWDM channels out of the C-band. The rest of the band will be transmitted.
- The DWDM OADM are compliant with the ITU G.694.1 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 DWDM ITU G.694.1 standard.

- Product Description: NETWORK CUBE DWDM-OADM-8 Unit
- Product Code: C-2427
- Channel Code : -Z (choose from table)
- Connector Code: -XY (choose from table)
- Revision Level: -Rev.A

Channels	(Z) Code
C18 - C25	A
C31 - C38	B
C43 - C50	C
C54 - C61	D

(X) Common ports (Y) CWDM / UG 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
other	tbd

Example Order Code: **C-2427-A-15-Rev.A** for a DWDM OADM unit (channels C18 – C25) with LC/PC on all common / trunk ports and LC/PC on all WDM ports.



#### Revision History

No	Description	Date	Created by
A	Initial release	07.02.12	Christian Zank

### NETWORK CUBE DWDM-OADM-8 Unit

C-2427\_Rev.A

#### General Specifications

Operating Temperature	-5°C to +70°C
Storage Temperature	-40°C to +80°C
Max. optical Power	< 300 mW
Fiber Type	SMF-28 compatible    Ø 9 / 125 / 250µm
Optical Adapters	
All ports	to be selected by customer via order code

#### Optical Performance

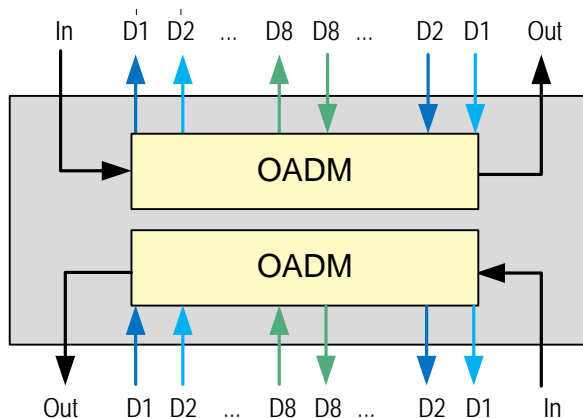
Number of channels	8
Operating channel	
A	C18 to C25
B	C31 to C38
C	C43 to C50
D	C54 to C61
Channel Spacing	100 GHz
Insertion Loss	max <sup>1</sup> typical <sup>2</sup>
DWDM	< 4.2 dB
Pass	< 2.0 dB
Isolation	
DWDM adjacent channels	> 25 dB
DWDM non-adjacent channels	> 40 dB
Optical Return Loss	> 45 dB (for the component, also depends on connectors)
Directivity	> 60 dB
Polarization Dependent Loss	< 0.3 dB

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

<sup>2</sup> 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.

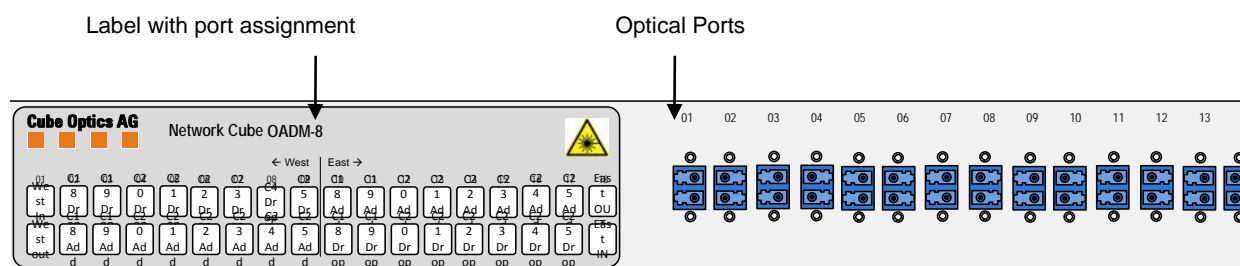
#### Package Dimensions and Front Plate design

##### Logical setup



##### Connection Scheme

- The channel ports are marked with "01", "02", ... "18".
- Actual port assignment displayed on the label at the left side of front panel.
- The channels are labelled as "C18", "C19", ... "C25" according to the ITU-T 100 GHz DWDM grid.
- In & Out ports are labelled as "West In", "West Out", "East In", "East Out".
- All ports are equipped with adapters as defined by customer via order code.



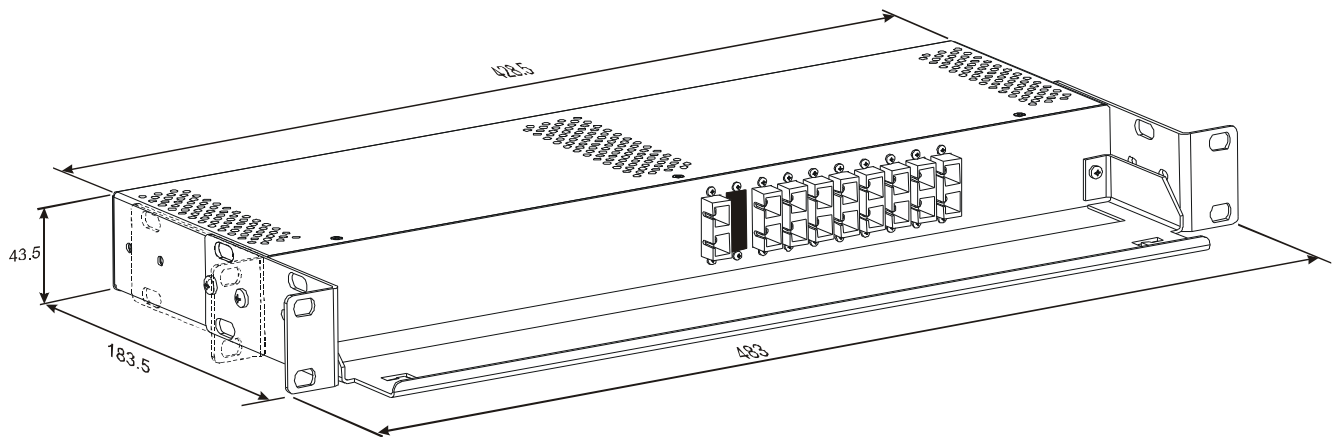
Please note, that the actual layout depends on the chosen connector type as well as other factors. However, the principal scheme stays the same.

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### DWDM-OADM-8 Unit

**C-2427\_Rev.A****Layout and dimensions**

- Width: 483 mm (19"), 532 mm (ETSI)
- Height: 43.5 mm (1.732") / 1HU
- Depth: 183.5 / 125 mm
- The color of the module is light gray (color code RAL7035)
- All fonts and labels are printed in black



Please note, that above drawing only illustrates the dimensions  
but not the specific configuration of the unit!

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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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