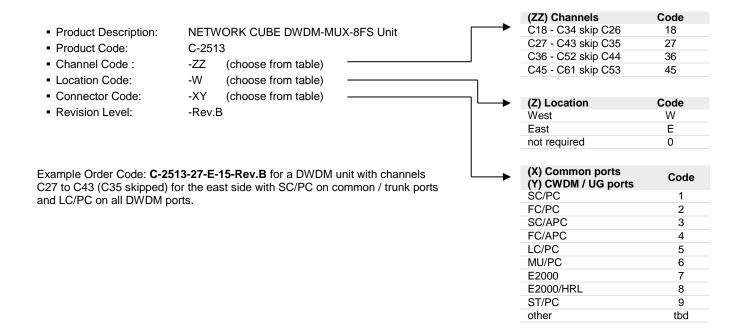
HUBER+SUHNER Cube Optics

NETWORK CUBE
DWDM-MUX-8FS Unit

C-2513 Rev.B

Product Description

- Passive WDM unit for 19" rack type installation (1HU).
- The unit contains one piece of sixteen-channel DWDM 100GHz multiplexer.
- DWDM multiplexers to multiplex or de-multiplex sixteen DWDM channels out of the C band.
- The multiplexers operates bi-directional for up- and downstream transmission over 1 single fiber: The common / trunk works as input and output, each channel port may either used to multiplex the Tx transceiver signal to the trunk port or to de-multiplex the trunk signal to the Rx transceiver input so typically eight channels upstream and eight channels downstream over one fiber.
- · Combination of west and east unit leads to optimized link loss.
- The DWDM multiplexer is 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.





Revision History

No	Description	Date	Created by
Α	Initial release	09.12.11	Islah Touhtouh
В	Introduction of east and west units	17.10.12	Carsten Marheine

Rev. B / VO0026_5.0 Page 1/4



NETWORK CUBE DWDM-MUX-8FS Unit

C-2513_Rev.B

General Specifications

Operating Temperature	+0°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	16	
Operating channel		
DWDM cluster #1	C18-C25 and	C27-C34
DWDM cluster #2	C27-C34 and	C36-C43
DWDM cluster #3	C36-C43 and	C45-C52
DWDM cluster #4	C45-C52 and	C54-C61
Channel Spacing	100 GHz	
Insertion Loss	max ¹	typical 2
	< 4.0 dB	
Link Loss ³	< 6.0 dB	
Isolation		
DWDM adjacent channels	> 25 dB	
DWDM non-adjacent channels	> 40 dB	
Directivity	> 60 dB	
Polarization Dependent Loss	< 0.3 dB	

Rev. B / VO0026_5.0 Page 2/4

¹ Max. insertion loss over channel bandwidth, valid over full operating temperature range and all states of polarization including optical connectors. The typical

connectors. Typical values have been derived with statistical methods from actual production data to reflect the majority of cases.

3 Link loss applies only when combining an East with a West unit in a fiber link.

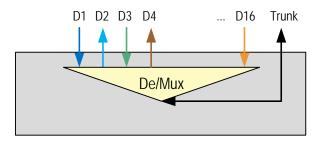
HUBER+SUHNER Cube Optics

NETWORK CUBE
DWDM-MUX-8FS Unit

C-2513_Rev.B

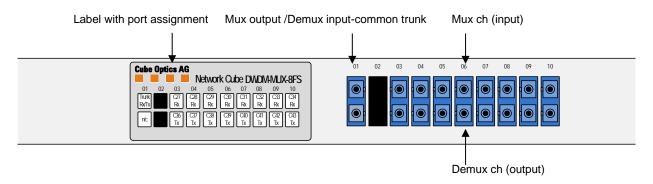
Package Dimensions and Front Plate design

Logical setup



Connection Scheme

- Optical ports are marked with "01", "02",..."10".
- Actual port assignment displayed on the label at the left side of front panel.
- The channels are marked with "C30", "C31",..."C39"according to the ITU-T 100 GHz DWDM grid.
- 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.

Rev. B / VO0026_5.0 Page 3/4

NETWORK CUBE DWDM-MUX-8FS Unit



C-2513_Rev.B

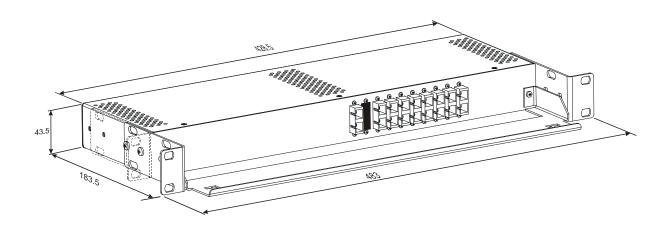
Layout and dimensions

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!

HUBER+SUHNER Cube Optics AG 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.

HUBER+SUHNER Cube Optics AG Robert-Koch-Strasse 30 55129 Mainz Germany

phone: +49-6131-69851-0 fax: +49-6131-69851-79 sales.cubo@hubersuhner.com

www.hubersuhner.com www.cubeoptics.com

Rev. B / VO0026_5.0 Page 4/4