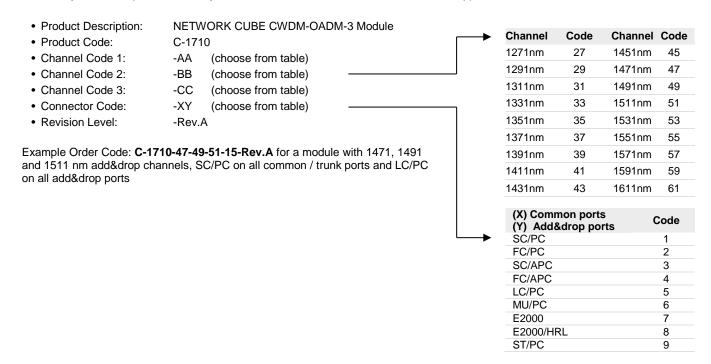
HHUBER+SUHNER Cube Optics

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 ("East-and-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.



Revision History

No	Description	Date	Created by
A	Initial release	31.03.06	Thomas Paatzsch

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General Specifications

0°C to +70°C 0°C to +80°C
250 mW
MF-28 compatible Ø 9 / 125 / 250μm
be selected by customer via order code
be selected by customer via order code
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Optical Performance of each of the 2 components of 3 channel Add&Drop

Number of channels	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 defined 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 channel at drop ports	> 50 dB		
drop channel at output port	> 27 dB		
isolation spectral range	1260 nm to 1620 nm		
Optical Return Loss	> 45 dB (for the component, also depends on connectors)		
Polarization Dependent Loss	< 0.2 dB		

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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

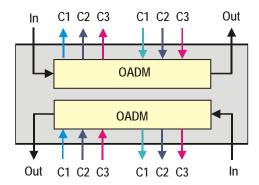
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NETWORK CUBE CWDM-OADM-3 Module

C-1710-Rev. A

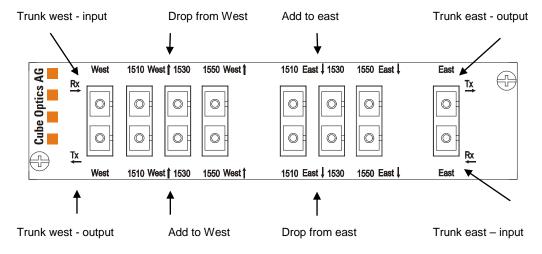
Package Dimensions and Front Plate design

Logical setup



Connection Scheme

- The add and drop ports are marked with the corresponding transceiver wavelengths. (e.g. "1510" instead of "1511" 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.

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NETWORK CUBE
CWDM-OADM-3 Module

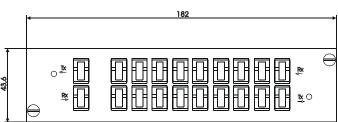
C-1710-Rev. A

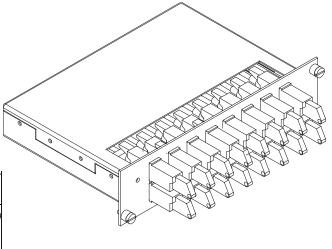
Layout and dimensions

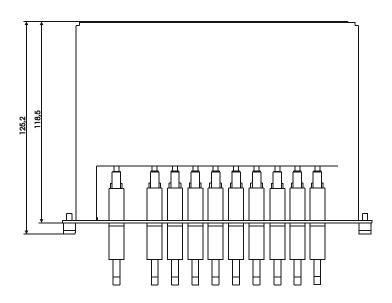
Width: 166 / 182 mm
Height: 25.75 / 44 mm
Depth: 118.5 / 125.2 mm

• The color of the module is light gray

• All fonts and labels are printed in black







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

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.

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