



# SWITCH-Cubes

## Features

- Bi- or mono-stable fiber-optical switching module
- Low switching power required
- Micro-hybrid construction in a sealed metal housing
- Epoxy-free optical path
- Extremely small component dimensions: 15 x 15 x 15 mm<sup>3</sup>, other dimensions on demand
- Flexible Fiber Connection Technology (FFCT), for details see Products page
- All types of single mode as well as multi mode fibers possible
- Extremely wide band of wavelengths possible (VIS-IR)
- Fiber packaging: loose tube or 250 µm coating

## Applications

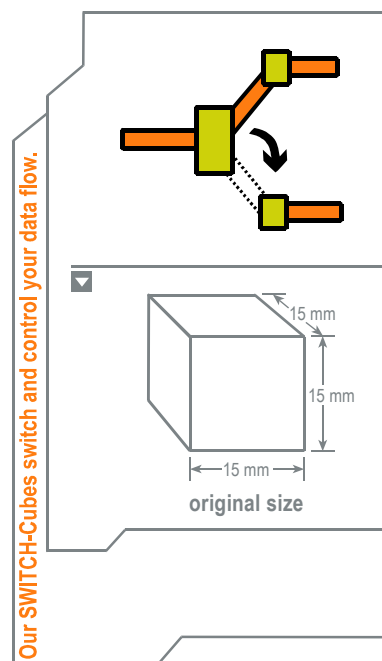
- Network switching in central office environments
- Optical network protection and restoration
- Configurable optical add/drop
- Transmitter and receiver protection
- Bi-directional or unidirectional systems
- Cable TV, Metro Core, Metro Access, Metro Enterprise, WAN, RFTS

## Specifications

Parameters	Fiber-optical Switches	
Port configurations	1 x 1 (on / off), 1 x 2, 2 x 2	
Wavelength range	1290-1330 nm and 1525-1575 nm	
Insertion loss*	1 x 1, 1 x 2	< 0.8 dB
	2 x 2	< 1.0 dB
Return loss *	> 50 dB	
Polarization dependent loss	< 0.1 dB	
Crosstalk	> 50 dB	
Switching time	< 10 ms	
Operating temperature	0°C – 70°C	
Storage temperature	-45°C – 85°C	
Package dimensions	15 x 15 x 15 mm <sup>3</sup>	

\* It is the max. loss at entire wavelength range, valid over full temperature range and at all states of polarization but without connector losses.

Additional components according to your specifications on demand!



## V 4.0

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## Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please print the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact Cube Optics AG at +49 - 6131-698510 or via e.mail at sales@cubeoptics.com, or visit our website at www.cubeoptics.com.

Ordering example: S-1-2-A-0-S-3-B-15

S-  -  -  -  -  -  -  -  -  -

no. of input ports	code
1	1
2	2

wavelength	code
1310 nm/1550 nm	A

fiber connection	code
in- and output on same side	S
in- and output on opposite sides	O
rectangular connection	R

fiber length	code
0.5 m	A
1 m	B
1.4 m	C

connector in / out	code
none	0
SC/PC	1
FC/PC	2
SC/APC **	3
FC/APC	4
LC/PC	5
MU/PC	6
E2000/HR	7

no. of output ports	code
1	1
2	2

optional features	code
none	0

fiber type and packaging	code
Corning SMF-28™ (9,125,250 μm) 900 μm loose tube	1
Corning SMF-28™ (9,125,250 μm) 250 μm coating	2
multi mode fiber GI (50,125,250 μm) 900 μm loose tube	3
multi mode fiber GI (50,125,250 μm) 250 μm coating	4

\* 8° angular polishing

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