

SWITCHES

VX500 2xN SWITCH

DiCon's VX500 2xN Switch offers accurate connection of two input fiber channels to a maximum of 30 output fiber channels. The 2xN switch is available in blocking and non-blocking configurations. The VX500 2xN Switch is available in compact housings for up to 14 or 30 output channels. The housings are designed for mounting on printed circuit boards or within enclosures.

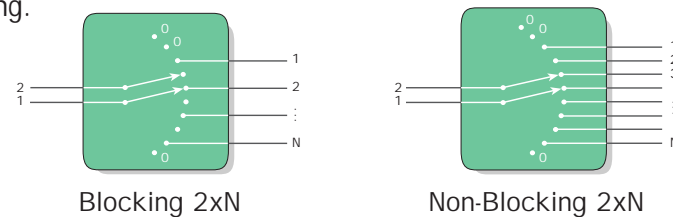


FEATURES

- Very low insertion loss
- Low back-reflection
- Compact housings with up to 30 output channels
- Parallel TTL interface

APPLICATIONS

Applications for 2xN switches include component testing and measurement, remote fiber test systems, and fiber network monitoring.



Blocking 2xN switches have two inputs aligned with only one output. The components switch in half-channel increments. Non-blocking 2xN switches have two inputs aligned with two outputs. They switch in one-channel increments.



SWITCHES

SPECIFICATIONS¹

Insertion loss	0.6 dB typ., 1.2 dB max.	
Back-reflection	singlemode	-60 dB typ., -55 dB max.
	multimode	-20 dB typ.
Repeatability ²	±0.02 dB max.	
PDL ³	0.05 dB max.	
Cross-talk	-80 dB max.	
Switching time	300ms+16ms per channel max.	
Durability	10 million cycles min.	
Power requirements	±12 VDC ±5% power in, 300 mA max.	
Operating temperature	0°C to +50°C max.	
Storage temperature	-20°C to +70°C	
Humidity	40°C/90%RH/5 days	

1. All specifications referenced without connectors.
2. Sequential repeatability for 100 cycles at constant temperature after warm-up.
3. Singlemode only. Measured at 1550 nm.

ORDERING INFORMATION

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Switch Configuration ¹	
2xN/LB	Blocking 2xN
2xN/LN	Non-blocking 2xN
Fiber Type	
9	9/125, SMF-28
50	50/125
62	62.5/125
Wavelength Range ²	
8/13	780.0 - 1350.0 nm (multimode)
13/15	1290.0 - 1570.0 nm
13/16	1290.0 - 1650.0 nm
Connector Type	
FC	FC/SPC
FC/APC	FC/APC
FC/UPC	FC/UPC
SC	SC/SPC
SC/APC	SC/APC
SC/UPC	SC/UPC
ST	ST/SPC
ST/UPC	ST/UPC
LC	LC/UPC
N	None
Fiber Jacket	
0.9	0.9 mm, tight buffer
2.0	2.0 mm, loose tube
Pigtail Length	
1	1 meter
x	Specify x meters

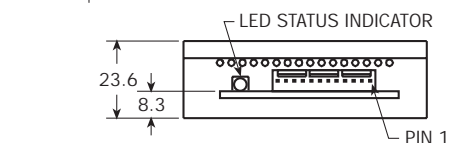
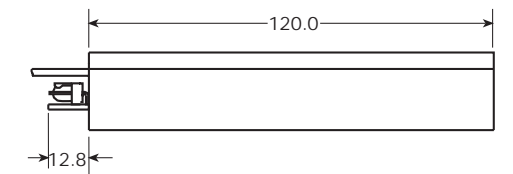
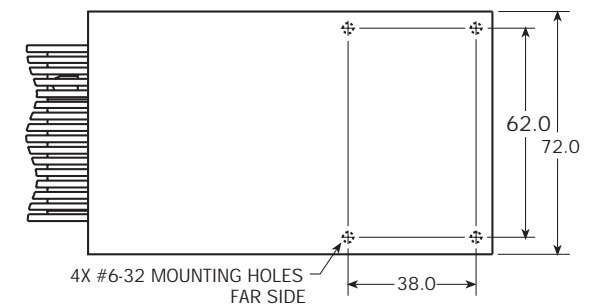
1. Specify N.
2. All wavelengths referenced to vacuum.

HOUSING SPECIFICATIONS

Chassis	Output channels		Width W	Height H	Depth D
	Non Blocking & Duplex	Blocking			
#1	2 to 14	4 to 8	72.0 mm	23.6 mm	120.0 mm
#2	16 to 30	10 to 16	140.0 mm	23.6 mm	140.0 mm

HOUSING DIMENSIONS

Chassis #1 (see Vx500 1xN Switch for a drawing of chassis #2)



Units: mm
Electrical connector is 12-pin right-angle header (Molex part number 22-12-2124). Mate with Molex part number 22-01-3127 or equivalent.

PIN ASSIGNMENTS

Pin Number	Signal Type	Description
1	Power	Signal Ground
2	Power	Power Ground
3	Input	Data bit 0
4	Input	Data bit 1
5	Input	Data bit 2
6	Input	Data bit 3
7	Input	Data bit 4
8	Input	Strobe
9	Output	Busy/ready status
10	Output	Error Status
11	Input	Reset
12	Power	+12 VDC power in