SWITCHES

VX500 ZxN 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. DiCon's VX500 2xN Switch can be built with Corning SMF-28, Flexcor 1060 or Polarization Maintaining Panda fiber.

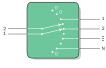


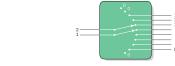
FEATURES

- Very low insertion loss
- Low back-reflection
- Compact housings with up to 30 output channels
- Parallel TTL interface
- Flexible fiber types and wavelength ranges

APPLICATIONS

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





Blocking 2xN

Non-Blocking 2xN

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 two-channel increments.



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SPECIFICATIONS¹

	Insertion loss ²		0.6 dB typ., 1.0 dB max.	
	Back-reflection	singlemode	-60 dB typ., -55 dB max.	
		multimode	-20 dB typ.	
	Repeatability ³		±0.02 dB max.	
	PDL ⁴		0.05 dB max.	
	Cross-talk		-80 dB max.	
	Extinction ratio ⁵		18 dB min.	
	Switching time		300ms+16ms per channel max.	
	Durability		10 million cycles min.	
	Power requirements Optical power ⁶ Operating temperature		± 12 VDC $\pm 5\%$ power in, 300 mA max.	
			300 mW max.	
			0°C to +50°C max.	
Storage tempe		ature	-20°C to +70°C	
	Humidity		40°C/90%RH/5 days	

- 1. All specifications referenced without connectors.
- 2. 1.2 dB max. for multiple wavelength ranges.
- 3. Sequential repeatability for 100 cycles at constant temperature after warm-up.
- 4. Singlemode only. Measured at 1550 nm.
- 5. Corning Panda PM 1300 fiber type only. 6. High power version (2W) available as special order.

PIN ASSIGNMENTS

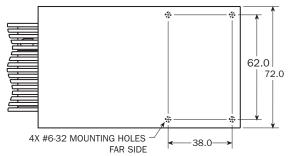
Pin Number	Signal Type	Description	
1	Power	Signal Ground	
2	Power	Power Ground	
3	Input	Data bit 0 Data bit 1 Data bit 2	
4	Input		
5	Input		
6	Input	Data bit 3	
7	Input	Data bit 4	
8	Input	Strobe	
9	Output	Busy/ready status	
10	Output Error Status		
11	Input	Reset	
12 Power		+12 VDC power in	

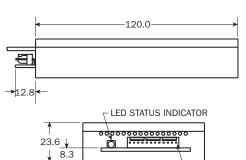
HOUSING SPECIFICATIONS

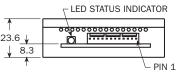
	Channel count				
Chassis	Non Blocking & Duplex	Blocking	Width W	Height H	Depth D
#1	2 to 14	4 to 8	72.0 mm	23.6 mm	120.0 mm
#2	16 to 32	10 to 24	140.0 mm	23.6 mm	140.0 mm

HOUSING DIMENSIONS

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





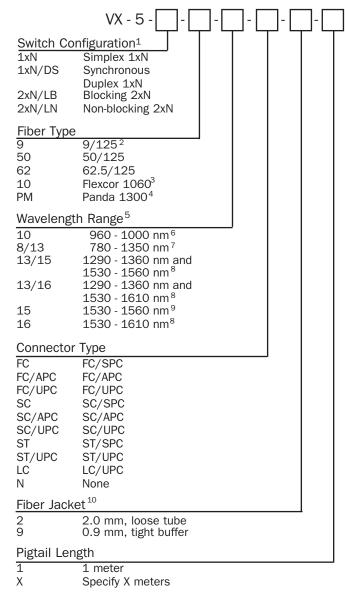


Electrical connector is 12-pin right-angle header (Molex part number 22-12-2124). Mate with Molex part number 22-01-3127 or equivalent.

50345

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- 1. Specify N.
- 2. Corning fiber SMF-28.
- Corning Flexcor 1060 fiber with 250 μm jacket.
 Corning Panda PM 1300 fiber with 400 μm jacket.
- 5. All wavelengths referenced to vacuum.
- 6. Flexcor only.7. Multimode fiber only.
- 8. 9/125 fiber only.
- 9. 9/125 fiber and Panda 1300 fiber only.
 10. Tight buffer fiber jacket not available for Flexcor or Panda fiber.