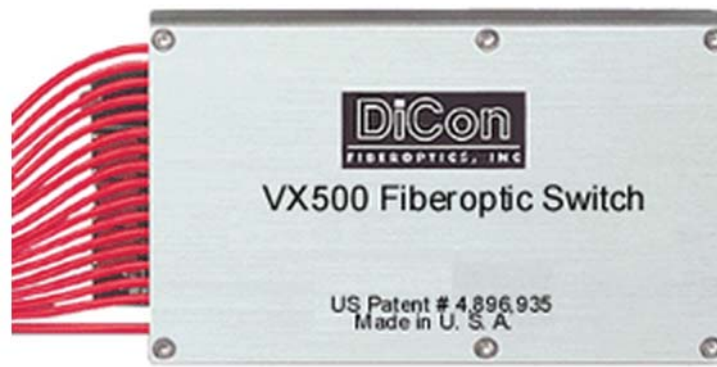


# VX500 1xN OPTICAL SWITCH

DiCon's VX500 1xN Optical Switch offers accurate connection of one or two input fiber channels to a maximum of 50 output fiber channels. The 1xN switch is available in simplex and duplex configurations. The VX500 1xN Optical Switch is available in a compact housing with 16, 32 or 50 maximum channels. The housing is designed for mounting on printed circuit boards or within enclosures. DiCon's VX500 1xN Switch can be built with singlemode, multimode or polarization maintaining panda fiber.

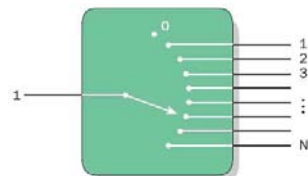


## FEATURES

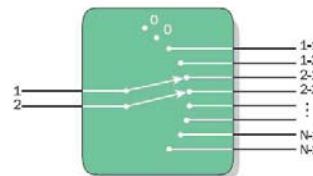
- Compact Form Factor
- Flexible fiber types and wavelength ranges

## APPLICATIONS

Applications for VX500 1xN switches includes component testing and measurement, remote fiber test systems, and fiber network monitoring.



Simplex 1xN



Duplex 1xN

Simplex 1xN switches have one input aligned to one of N outputs. The components switch in one-channel increments. Duplex 1xN switches have two inputs aligned to two outputs. They switch in two-channel increments.



# VX500 1XN OPTICAL SWITCH

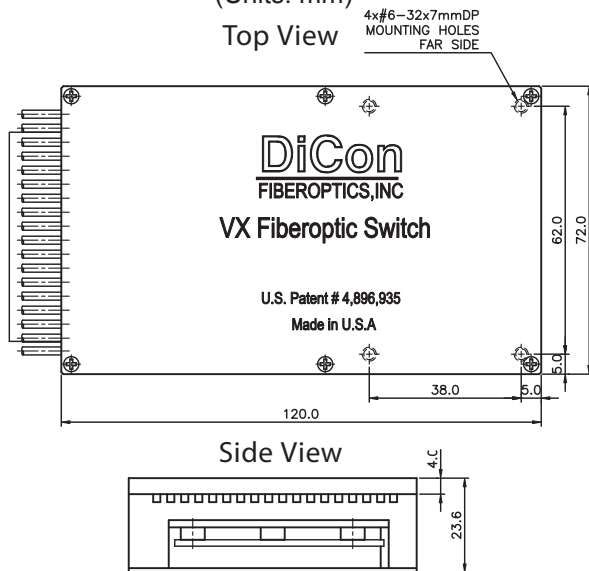
## OPTICAL SPECIFICATIONS<sup>1</sup>

PARAMETER	RATING	
Insertion Loss <sup>2,3</sup>	1.0 dB max	
Crosstalk	-80 dB max.	
Back Reflection	Singlemode	-55 dB max.
	Multimode 50µm	-25 dB max.
	Multimode 62.5µm	-20 dB max.
PDL <sup>4,5</sup>	0.10 dB max.	
Extinction Ratio <sup>6</sup>	18 dB min.	
Switching Time	300 ms + 16 ms per channel max.	
Repeatability <sup>7</sup>	±0.02 dB max.	
Durability	10 million cycles min.	
Optical Power <sup>8</sup>	300 mW max.	
Operating Temp	0 to 50°C	
Storage Temp	-20 to 70°C	

- Specifications are without connectors.
- IL is measured at CWL, 23°C.
- IL is for single-band. Dual-band adds 0.2 dB.
- Singlemode only.
- PDL is for single-band. Dual-band adds 0.05 dB.
- Corning Panda PM 1550 fiber only
- Repeatability is defined after 100 cycles.
- High power version (1.5W) available as special order

## MECHANICAL DIMENSIONS CHASSIS #1

(Units: mm)



## HOUSING SPECIFICATIONS

Chassis	Channel Count	Width W	Height H	Depth D
#1	1 to 17 channels	72.0 mm	23.6 mm	120.0 mm
#2	18 to 32 channels	140.0 mm	23.6 mm	140.0 mm
#3	33 to 50 channels	190.0 mm	23.6 mm	175.0 mm

## ORDERING INFORMATION

VX - 5 -  -  -  -  -  -

### Product Code

VX VX500 Switch

### Switch Configuration

1xN Simplex 1xN  
1xN/DS Synchronous Duplex 1xN

### Fiber Type

9 9µm core Corning SMF-28  
50 50µm core  
62 62.5µm core  
PM Panda 1550 with 400µm jacket

### Wavelength Range

8 850 nm<sup>1</sup>  
13 1290 - 1330 nm<sup>2</sup>  
15 1530 - 1570 nm<sup>3</sup>  
16 1570 - 1610 nm<sup>2</sup>  
8/13 850 nm & 1310 nm<sup>1</sup>  
13/15 1290 - 1330 & 1530 - 1570 nm<sup>2</sup>  
15/16 1530 - 1570 & 1570 - 1610 nm<sup>2</sup>

### Connector Type

FC/SPC FC/SPC  
FC/APC FC/APC  
N NONE

*Also Available: SC, SC/UFC, SC/APC, ST, ST/UFC, LC*

### Fiber Jacket

2 2.0 mm, loose tube  
9 0.9 mm, tight buffer<sup>4</sup>  
9LT 900 µm, loose tube

### Pigtail Length

1 1 Meter  
X Specify X Meters

*Tolerance is +/- 0.05 m*

- Multimode fiber only
- 9/125µm SMF-28 fiber only
- 9/125µm SMF-28 and Panda 1550 fiber only
- 9/125µm SMF-28 and 62.5µm core fiber only

## ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	TTL
Vcc Voltage	12 VDC
Power Consumption	3.6W max.
Connector Type	Molex 22-12-2124