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VX500 1xN Switch

DiCon's VX500 1xN 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 Switch is available in compact housings with 16, 32, or 50 maximum channels. The housings are designed for mounting on printed circuit boards or within enclosures. DiCon's VX500 1xN Switch can be built with Corning SMF-28, Flexcor 1060 or Polarization Maintaining Panda fiber.

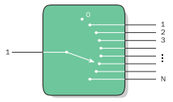


Features

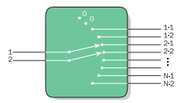
- Very low insertion loss
- Low back-reflection
- Compact housings with up to 50 channels
- Parallel TTL interface
- Flexible fiber types and wavelength ranges

Applications

Applications for 1xN switches include 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.

DiCon FIBEROPTICS, INC

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SWITCHES

Specifications[1]

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		±12 VDC ±5% power in, 300 mA max.
Optical power[6]		300 mW 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. 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

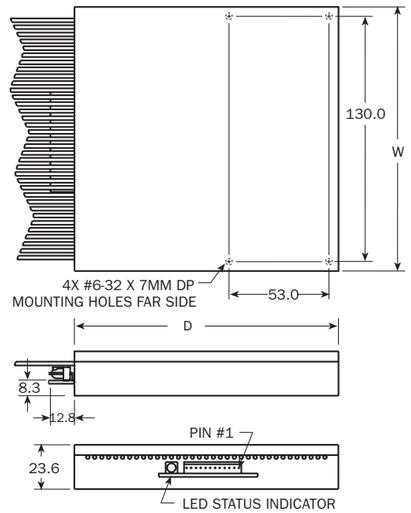
Pin Number	Signal Type	Description
1	Power	Signal Ground
2	Power	Power Ground
3	Input	Data bit 0
4	Input	Data bit 1
5	Input	Data bit 2
6	Input	Data bit 3
7	Input	Data bit 4
8	Input	Strobe
9	Output	Busy/ready status
10	Output	Error Status
11	Input	Reset
12	Power	+12 VDC power in

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

Housing Dimensions

Chassis #2 and #3 (see Vx500 2xN Switch for a drawing of chassis #1)



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.

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Switches

VX - 5 - □ - □ - □ - □ - □ - □

Switch Configuration[1]

1xN	Simplex 1xN
1xN/DS	Synchronous Duplex 1xN
2xN/LB	Blocking 2xN
2xN/LN	Non-blocking 2xN

Fiber Type

9	9/125[2]
50	50/125
62	62.5/125
10	Flexcor 1060[3]
PM	Panda 1300[4]

Wavelength Range[5]

10	960 - 1000 nm[6]
8/13	780 - 1350 nm[7]
13/15	1290 - 1360 nm and 1530 - 1560 nm[8]
13/16	1290 - 1360 nm and 1530 - 1610 nm[8]
15	1530 - 1560 nm[9]
16	1530 - 1610 nm[8]

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[10]

2	2.0 mm, loose tube
9	0.9 mm, tight buffer

Pigtail Length

1	1 meter
X	Specify X meters

1. Specify N.
2. Corning fiber SMF-28.
3. Corning Flexcor 1060 fiber with 250 µm jacket.
4. 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.

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