

2x2 BIDI INDUSTRIAL BYPASS OPTICAL NETWORK SWITCH

Product Description

The 2x2 BiDi Industrial Bypass Optical Network Switch utilizes fiber-to-fiber technology over an angled surface to achieve ultra low losses and crosstalk. It is an external Optical Bypass Box for 10 /1Gbps fiber Gigabit Ethernet networks. The 2x2 BiDi Industrial Bypass Optical Network Switch protects from network failures and is easy to implement network maintenance by ensuring network integrity. It is suitable for all bi-directional protection switching applications where premise-side connectivity is not required in the bypass state. The optical bypass box provides excellent performance on your network and posses the advantages of compact and competitive cost. Lightwave Link 2x2 BiDi Industrial Bypass Optical Network Switch fully complies with RoHS Directive 2002/95/EC (2008/385/EC).



Features

- Compact Format
- Low Return-Loss
- Available in Single Mode / Multi Mode
- Non-Latching Type
- LED indicators for Power and OSW status
- Power on Time Delay
- DIN Type Mounted

Applications

- Node Bypass Protection
- Network Maintenance
- Industrial Ethernet Ring Switch
- Intrusion Prevention System
- SDH ADM Ring
- WAN Optimization
- High Performance Server

Performance Specification

Parameter	9µm Core Single Mode			50µm or 62.5µm Core Multi Mode			11.2
	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit
Wavelength Range ¹		1260~1630			850/1300		nm
Straight Insertion Loss ²		0.5	1.0		0.4	0.8	dB
Bypass Insertion Loss ²		0.8	1.6		0.6	1.3	
Return Loss		-50					dB
PDL			0.1				dB
WDL			0.3				dB
Crosstalk		-80			-80		dB
Repeatability			±0.1			±0.1	dB
Absolute Optical Input Power			500			500	mW
Operating Current	150±10%	mA					
Operating Voltage	12~48					VDC	
Power Consumption	750±10%					mW	
EMI Certification	FCC Class B						
Switching Life Expectancy	3x10 ⁷						
Operation Temperature-Normal	-5		70	-5		70	°C
Operation Temperature-Special	-20		70	-20		70	°C
Storage Temperature	-40		85	-40		85	°C
Operation Humidity	5		95	5		95	%RH
Storage Humidity	5		95	5		95	%RH
Dimension (H*W*L)	26 x 95 x 140	mm					
Weight ³	510			g			

- 1. Special wavelength would be upon request.
- 2. Optical parameters excluded connectors.
- 3. The product weight excluded optical connectors.



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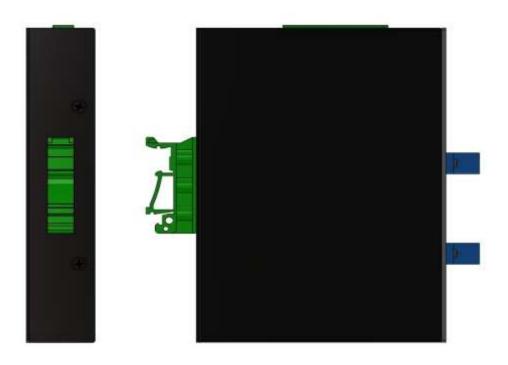


Function Diagram

OSW Mode	Optical Path				
Normal Mode	TX1/RX1←→B1	TX1/RX1 ————————————————————————————————————			
	TX2/RX2←→B2	TX2/RX2 — B2			
Bypass Mode	TX1/RX1←→TX2/RX2	TX1/RX1			

Physical Dimension







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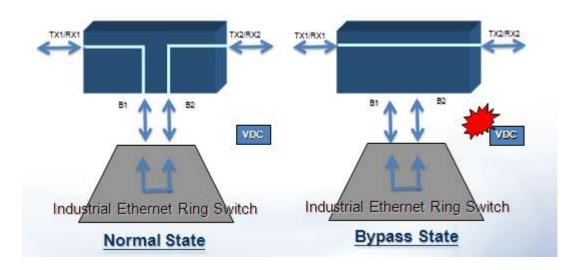
Connecting to the network

- 1. Connect Network TX1/RX1 to the appropriate switch, server or router device.
- 2. Connect Network TX2/RX2 to the appropriate switch, server or router device.
- 3. Verify that the Bypass Switch Network Ports are cabled in-line between two devices.

Connecting to the in-line device

- 1. Connect In-line B1 to the in-line device using a LC/PC patch cord.
- 2. Connect In-line B2 to the in-line device using a LC/PC patch cord.
- 3. Verify that the Switch In-line Ports are cabled in-line between two devices.
- 4. Making sure you connect the switches' power supply to the same power sources that in-line appliance is using.

Application Examples



Ordering Information

