

# Optical Bypass Switches

## Cassettes and Modules

Optical Bypass Switches provide protection and monitoring of optical cross-connects (OXC's), optical add-drop multiplexers (OADMs), and other systems during power outages or system failures.

These devices also make it easy to perform network maintenance.

They are available in 2x2 bidirectional and non-bidirectional configurations in a compact LGX cassette package.

A switch on the front of the cassette provides the user with the option of enabling a delay of either 0, 60 or 120 seconds before the device resumes its normal mode after a power outage. This allows other devices to fully power on before resuming network traffic.

1310nm or 1550nm wavelengths and 10/1Gbps fiber gigabit ethernet networks are supported.



## Features

- Low Insertion and Return Loss
- Singlemode Fiber
- Non-Latching Type
- Power on Time Delay (0, 60, or 120 seconds)
- LED Indicators for Power and Optical Switch Status

## Applications

- Ring Network
- Node Bypass Protection
- SDH ADM Ring
- WAN Optimization
- Network Maintenance

## Examples



48V Direct Power LC/UPC Non-Bidirectional

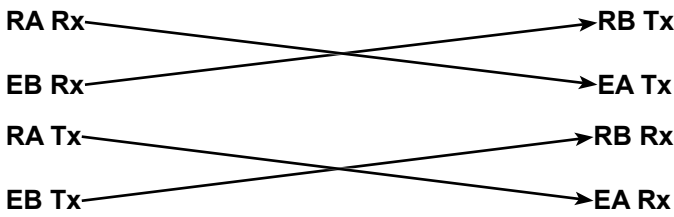
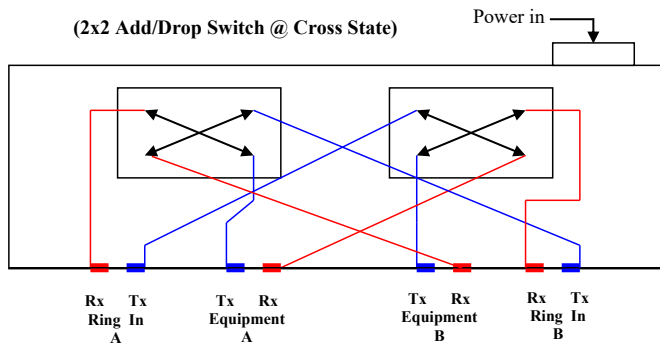


5V USB Power LC/UPC Bidirectional

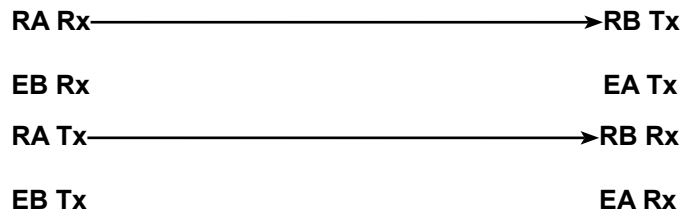
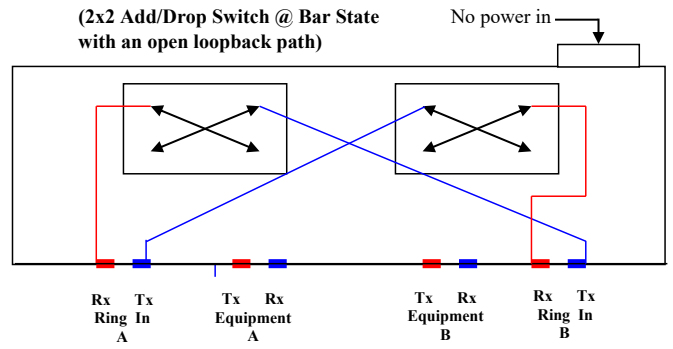
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## Cassettes and Modules

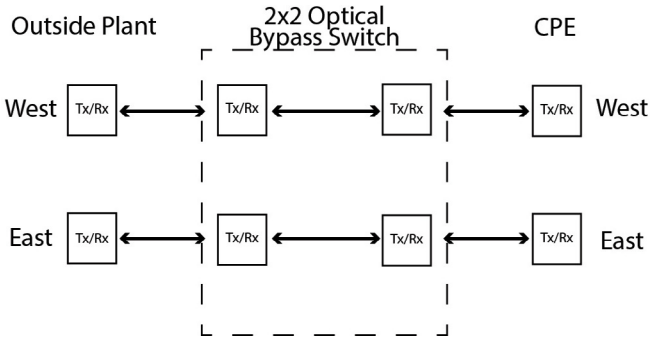
### Non-Bidirectional Normal Mode



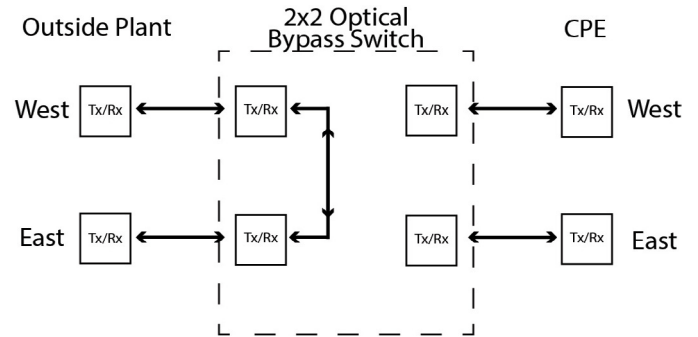
### Non-Bidirectional Bypass Mode



### Bidirectional Normal Mode



### Bidirectional Bypass Mode



### Accessories



3 Module 1RU LGX  
Wallmount/Rackmount Bracket  
P/N: 3XLGXW-RBRACKET-B-OT



2 Module LGX Wallmount Bracket  
P/N: 2XLGXWMBRACKET-B-OT



6 Module 2RU LGX  
Wallmount/Rackmount Bracket  
P/N: 6XLGXW-RBRACKET-B-OT

### Specifications

<b>Wavelength Range (nm)</b>	1260~1650
<b>Operating Wavelength (nm)</b>	1310/1550
<b>Control Type or Drive Mode</b>	Non-Latching
<b>Delay Options After Power Restart (seconds)</b>	0, 60, 120
<b>Bidirectional Typ/Max Insertion Loss (dB)</b>	0.6 / 1.0
<b>Non-Bidirectional Typ/Max Insertion Loss (dB)</b>	1.0 / 1.5
<b>Bidirectional Ports</b>	W Rx COM, WRx CPE, E Tx COM, E Tx CPE
<b>Non-Bidirectional Ports</b>	Ring In Rx A, Ring In Tx A, Equipment Rx A, Equipment Tx A, Ring In Rx B, Ring In Tx B, Equipment Rx B, and Equipment Tx B
<b>Return Loss (dB)</b>	≥50
<b>Crosstalk (dB)</b>	≥50
<b>PDL (dB)</b>	≤0.05
<b>WDL (dB)</b>	≤0.25
<b>TDL (dB)</b>	≤0.25
<b>Repeatability (dB)</b>	≤±0.02
<b>DC Power supply (V)</b>	5 or 48
<b>Power Consumption (W)</b>	<2.5
<b>Lifetime (cycles)</b>	≥10 <sup>7</sup>
<b>Switch Time (ms)</b>	≤8
<b>Transmission Power (mW)</b>	≤500
<b>Operating / Storage Temperature (°C)</b>	-5~+70 / -5~+85
<b>Operating / Storage Humidity (%RH)</b>	5~85
<b>Weight (g)</b>	250
<b>Dimension (mm)</b>	(H)129.0 x (W)28.0 x (D)100.0 (LGX Cassette)

### Part Number



**1** Power Input  
 DIRECT = Screw Terminal Block  
 USB = USB Type B

**2** Power Input Voltage  
 05V = 5V  
 48V = 48V

**3** Bidirectional  
 B = Bidirectional  
 N = Non-Bidirectional

**4** Adapter Type  
 SC = SC  
 LC = LC  
 FC = FC  
 ST = ST

**5** Polish Type  
 U = UPC  
 A = APC\*

\*Unavailable for ST