

# Better Solutions for a Better World

*(Fiber connectivity on demand)*

# molex

**Molex PXC systems** enables customers to dramatically reduce capital and operational expenditures, increase responsiveness, and improve productivity while increasing network availability and performance. The cost-effective solution is deployed worldwide in **communication service providers, intelligence, and enterprises.**



## PXC optical switch systems are

- Non-blocking (any-to-any)
- Fully transparent (future-proof)
- Easy to use, remote control
- API support for automation

## Capabilities

From 24x24 to 192x192 ports

Protocol/Bit Rate independent

Flexible/scalable

Real time optical power monitoring

Alarm management/notification

Small footprint (192x192 in 4U)

Low insertion loss

Rapid switching

Low power consumption

Customizable

High reliability

Remote management & monitoring

Multi-Switch Management

## Applications

5G – Wireless front/back haul

Data Center Interconnect (DCI)

Test automation/Cloud testing

Colocation/MMR

Network protection

RF over fiber

Video broadcast/distribution

Monitoring

Dark fiber

Cybersecurity

Performance Specifications	Min	Typ	Max
Switch Matrix <sup>1</sup>	24x24		192x192
Insertion Loss <sup>2, 3</sup>		1.7 dB <sup>2</sup>	3.2 dB <sup>3</sup>
Wavelength Range	1270nm		1630nm
Loss Repeatability		± 0.05 dB	± 0.10 dB
Spectral Variation (O, C or L Band)		< 0.5 dB	
Polarization Dependent Loss		0.05 dB	0.10 dB
Polarization Mode Dispersion		0.005 ps/nm	0.010 ps/nm
Optical Return Loss	30 dB		
Crosstalk	-70 dB		
Switching Speed			< 20ms
Latency <sup>4</sup>			< 15ns <sup>4</sup>
Operational Range (input power, standard) <sup>5</sup>	-25 dBm		20 dBm
Operating Temperature	-5°C		50°C
Operating Humidity (non-condensing)	5%		85%

<sup>1</sup> Chassis size determined by matrix size, asymmetric options available (64x128, 128x64).

<sup>2</sup> Measurements w/ LC @1310nm and 1550nm, 25°C, output power monitoring only

<sup>3</sup> 192x192 switch, measurements w/ LC @ 1310nm/1550nm, 25°C, input & output power monitoring.

<sup>4</sup> Input to Output (includes internal fiber)

<sup>5</sup> Low power (-35dBm) and high power (+25dBm) options available.

For more information, please visit : <http://www.oplink.com/passive/category/38.html>

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