OM124

20 Port Ethernet Optical Switch

Applications

- IP cameras
- Add/Drop topologies
- Secure data environments
- Airports, pipelines, factory environments

Description

The OM124 has the following Ethernet ports:

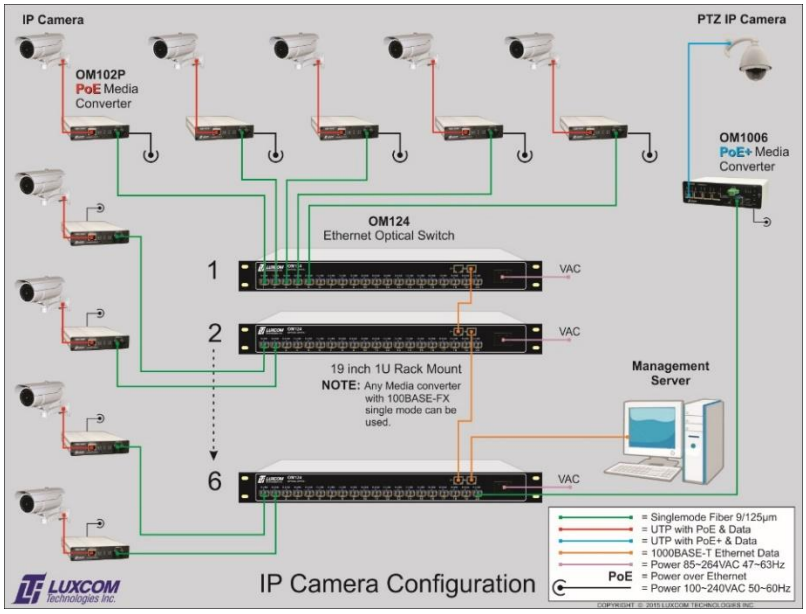
- 16 100BASE-FX optical ports
- 2 100BASE-FX or 1000BASE-X selectable optical ports
- 2 1000BASE-X optical ports
- 3 10/100/1000BASE-T electrical ports.

A typical application would be as a collector node for 100BASE cameras with a 1000BASE Optical upstream and downstream fiber to other collector nodes. Out of band switch management is available using a USB connection. SFP optics allows the selection of various multimode, singlemode, or bi-directional optics.

Features

- SFP optics
- Singlemode, multimode, bidirectional fiber
- Up to 100 km operating distance
- Received optical power displays
- Power/Link fail alarm relay
- AC/DC Redundant power inputs
- Industrial temp. range -35°C to 70°C
- 5 Year warranty

Typical Configuration



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Indicators

Optical Power meter bar graph for each port shows the optical signal strength.

Optical Link indicates link with remote end; it flashes when data is transmitted.

RJ45 LEDs indicates link, speed, and activity on the TP ports.

ALARM indicates a link/power condition as defined with the console. The Alarm Relay contacts will close.

AC indicate mains power.
DC indicates auxiliary power.

Specifications[1]

Optical

Order Code	802.3 Specification	Laser λ Source nm	Fiber Size µm	Output min. dBm	Sensitivity min. dBm	Range typical km
1000-SX	1000BASE-SX	850	50/125	-9	-18	0.550
			62.5/125	-9	-18	0.275
1000-LX	1000BASE-LX &	1310	50/125	-9	-20	1
	1000BASE-LX10		62.5/125	-9	-20	1
			9/125	-9	-20	10
1000-LXE[2]	PROPRIETARY	1310	9/125	-3	-23	40
1000-ZXE[2,3]	PROPRIETARY	1550	9/125	0	-32	100
1000-BU[4]	1000BASE-BX10	1310	9/125	-9	-20	20
1000-BD[4]	1000BASE-BX10	1550	9/125	-9	-20	20
100-FX	100BASE-FX	1310	50/125	-23	-32.5	2
			62.5/125	-19	-32.5	2
100-LX10	100BASE-LX10	1310	9/125	-15	-25	15
100-LX10E[2]	PROPRIETARY	1310	9/125	-5	-35	60
100-BU[4]	100BASE-BX10	1310	9/125	-14	-32.5	20
100-BD[4]	100BASE-BX10	1550	9/125	-14	-32.5	20

Order Code starting with 100 are for ports 0-15, as well as ports 16/17 if they are set to 100BASE-FX.
Order Code starting with 1000 are for ports 18/19, as well as ports 16/17 if they are set to 1000BASE-X.

[1] Specifications are subject to change without notice.
[2] Proprietary optics must interface with a similar SFP.
[3] Operating temperature range is limited to 0°C to 70°C for these optics.
[4] The single-fiber models must be used as complimentary pairs (one BU and one BD)

Electrical

Data 10/100/1000BASE-T RJ45 levels ..... IEEE 802.3 compatible
Data Console ..... USB mini 2.0
Power Consumption ..... < 25 Watts
DC Input ..... 18 – 36V, 1.2Amps
AC Input ..... 90 – 240V, 50 – 60Hz

General

Operating temperature ..... -35°C to 70°C[7]
Humidity (RH) ..... 10% to 95%
MTBF ..... > 50,000 hours
Dimensions W, H, D (19" rack mountable) ..... 44 x 4.4 x 20 cm
Warranty ..... 5 years