ZYXEL

MC1000SFP-IN
3-port Industrial Gigabit Ethernet PoE Switch

Along with the complete commercial product portfolio that offers customers with total network solutions, Zyxel introduces the new MC1000SFP-IN PoE switch with ruggedized design concepts to meet stringent outdoor or harsh network deployment scenarios. The wide operating temperature range ensures reliable performance in adverse environments and expands MC1000SFP-IN's network availability in a wide variety of field applications.

Wide-ranging operating temperature design from -40°C to 75°C

Fanless design and compact mechanism with IP40 standard

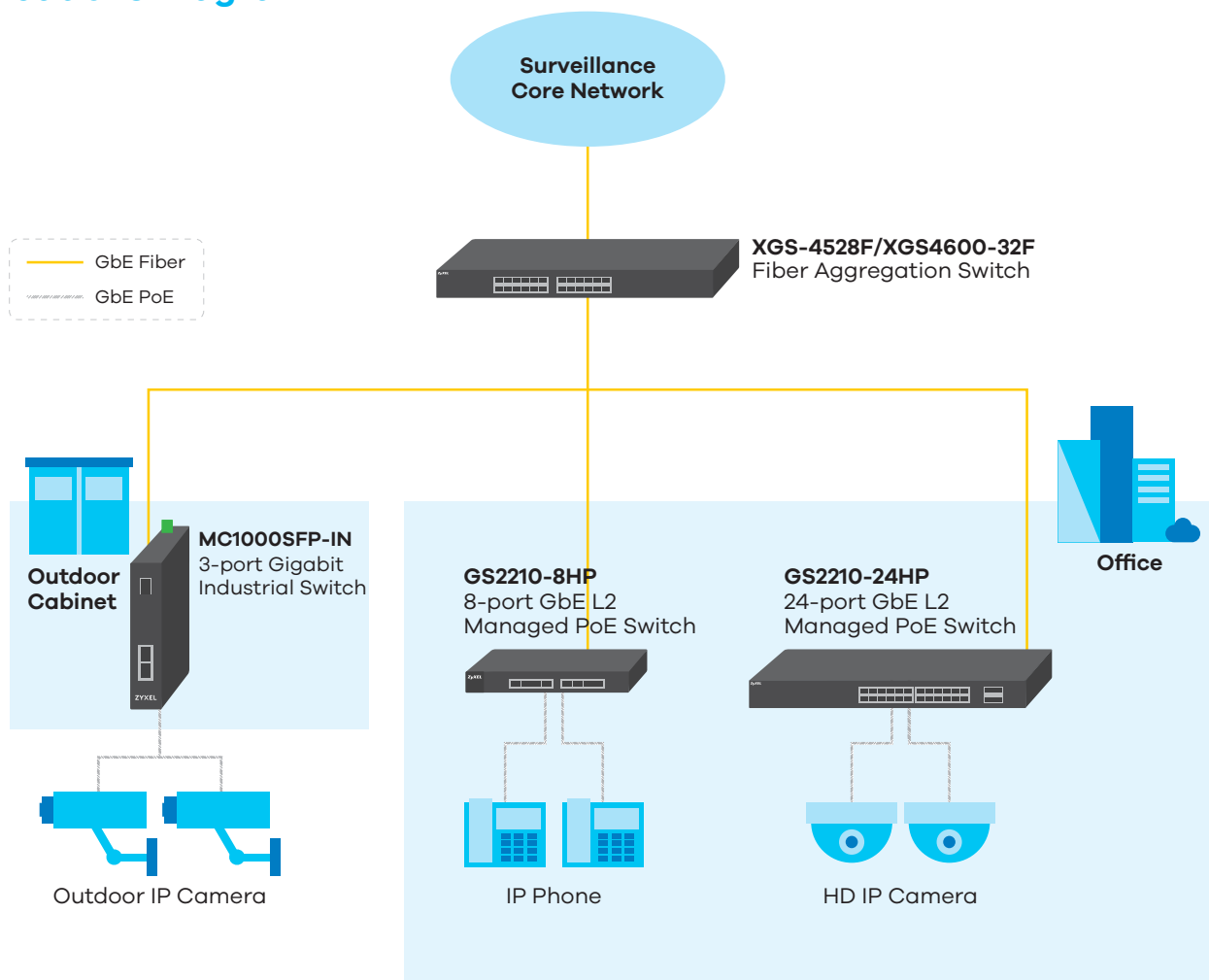All PoE ports support PoE+ and high PoE power budget up to 60 W

Dual power inputs (12 V - 58 V DC)

Benefits

Rugged and reliable design for harsh environments

Designed with fanless and IP40 standard metal mechanism, the Zyxel MC1000SFP-IN is able to to deliver excellent thermal controls and withstand dusty environments and can be installed on either a DIN rail for efficient use of cabinet space. In addition, wide-ranging operating temperature tolerance allows MC1000SFP-IN to be deployed across a spectrum of harsh environments. Equipped with dual DC power inputs, the MC1000SFP-IN is capable of high- availability operation and resilience under the most demanding conditions. When switching is applied normally in outdoor settings, ESD (electrostatic discharge) and DC surge protection prevent the loss of business revenue and productivity due to damage or fatigue caused by power disturbances.

Trouble-free installation and easy extendibility

This rugged unmanaged PoE switch comes with two 10/100/1000 Base-T copper PoE ports and one 100/1000-Base-X SFP fiber interface. The switch also supports the 802.3at PoE plus standard, with each PoE port providing up to 30W of power to efficiently accommodate the most power-hungry devices. The fiber uplink can extend the network to long-distance nodes up to 40 km (43,744 yards) away for added flexibility.

Datasheet MC1000SFP-IN

Plug-and-Play deployments

The Zyxel MC1000SFP-IN is able to negotiate the optimal data speed and activate duplex mode automatically with N-Way feature. It can also detect the type of connection to any Ethernet device with support for auto-MDI/MDI-X. Broadcast storm protection can easily be activated via DIP switch. Plug-and-play makes deploying the MC1000SFP-IN hassle-free for any application or scenario.

Applications Diagram

Accessories

Transceivers (Optional)

Model	Speed	Connector	Wavelength	Max. Distance	DDMI
SFP-1000T	Gigabit	RJ-45	-	100 m (109 yd)	-
SFP-BX1310-10-D	Gigabit	LC	1310 nm (Tx); 1490 nm (Rx)	10 km (10936 yd)	Yes
SFP-BX1490-10-D	Gigabit	LC	1490 nm (Tx); 1310 nm (Rx)	10 km (10936 yd)	Yes
SFP-LHX1310-40-D	Gigabit	LC	1310 nm	40 km (43744 yd)	Yes
SFP-LX-10-D	Gigabit	LC	1310 nm	10 km (10936 yd)	Yes
SFP-SX-D	Gigabit	LC	850 nm	550 m (601 yd)	Yes
FP-ZX-80-D	Gigabit	LC	1550 nm	80 km (87488 yd)	Yes
SFP-100BX1310-20-D	Fast Ethernet	LC	1310 nm (Tx); 1550 nm (Rx)	20 km (21872 yd)	Yes
SFP-100BX1550-20-D	Fast Ethernet	LC	1550 nm (Tx); 1310 nm (Rx)	20 km (21872 yd)	Yes

Datasheet MC1000SFP-IN

Specifications

Product Name	3-port Industrial Ethernet PoE Switch / Media Converter
Interface	2 x 10/100/1000M copper RJ45 ports+1x gigabit SFP optical slots
PoE Specification	Supports both IEEE802.3af and IEEE802.3at
	Single PoE Port Power Output: Max. 15.4 watts (IEEE 802.3af) Max. 30 watts (IEEE 802.3at)
	2 PoE ports, auto detect AF/AT devices
	PoE Port Output Voltage: DC48-57V
	Power Pin Assignment:1/2+;3/6 -
Switch Processing Scheme	Store-and-Forward
Optical Interface	SFP slot
Optical Transmission Distance	550m-20km or more, depends on optical module you used
MTBF:	300,000 hours
Standards Compliance	IEEE802.3: CSMA/CD IEEE802.3i: 10Base-T IEEE802.3u: 100Base-T IEEE802.3ab: 1000Base-T IEEE802.3z: 1000Base-LX
LED Indicators	Power: PWR; Link; PoE
Power	Removable industrial 3-pin terminal block, dual DC power for AC power input
Product Size	W×D×H: 110x80x43mm
Working Environment	Working Temperature: -40～75 ℃ Storage Temperature: -40～75 ℃ Working Humidity: 5%～95%(non- condensing) Storage Humidity: 5%～95%(non- condensing) Working high: Altitude of 3000 m(10,000ft) Storage high: Altitude of 3000 m(10,000ft)
Radiation Compliance	CE mark, commercial FCC Part 15 Class B VCCI Class B EN 55022 (CISPR 22), Class B
Safety Compliance	CE Mark, commercial CE/LVD EN60950

For more product information, visit us on the web at www.zyxel.com

Datasheet MC1000SFP-IN

5-100-01017001   03/17