



With the Asante SFP M1000SX/LX/LZ modules, quickly add support for Gigabit Ethernet over fiber media.

- For Asante IntraCore[®], FriendlyNET[®] and other Gigabit switches with industry-standard SFP garages (non-keyed)
- M1000SX supports distances up to 550 meters
- M1000LX supports distances up to 10 kilometers
- M1000LZ supports distances up to 80 kilometers
- Hot swappable
- Small Form Factor Pluggable MSA compliant
- Compliant with IEEE 802.3z Gigabit Ethernet standards
- Low power consumption
- 3.3 VDC power supply

SPECIFICATIONS – M1000SX

Overview

LAN:	Fiber Gigabit Ethernet : LC connector
Form Factor:	Small Form Factor Pluggable MSA compliant
Wavelength:	850 nm
Fiber Type:	Multi-mode (MMF)
Typical Coverage:	Up to 550 meters (requires 50 micron fiber cable for typical max distance)

Optical Characteristics (T= 0° C – 70° C; Vcc= 3.1 – 3.5 V)

	Min.	Typ.	Max	Unit
Output Optical Power (P _{OUT})	-9	----	-4	dBm
Extinction Ratio (E _R)	9	----	----	dB
Optical Input Power (P _{IN})	----	----	0	dBm
Sensitivity (P _{IN})	----	----	-18	dBm
Optical Return Loss (OLR)	12	----	----	dB
Loss of Signal - Asserted (LOS _A)	-32	----	----	dBm
Loss of Signal - Deasserted (LOS _B)	----	----	-18	dBm

Standards Compliance

Network:	IEEE 802.3z Gigabit Ethernet
Safety:	Class 1 Laser complies with IEC 60825-1
Regulatory:	UL 94V-0

Physical and Environmental

Case:	Chrome metal
Dimensions (L x W x H):	2.23 x 0.54 x 0.33 inches (56.64 x 13.72 x 8.46 mm)
Weight:	About 0.1 pounds (0.05 Kg)
Power:	3.3 VDC
Storage Temperature:	-40° to 85° C
Operating Temperature:	0° to 70° C
Relative Humidity:	5% to 95% non-condensing

SPECIFICATIONS – M1000LX

Overview

LAN:	Fiber Gigabit Ethernet : LC connector
Form Factor:	Small Form Factor Pluggable MSA compliant
Wavelength:	1310 nm
Fiber Type:	Single-mode (SMF)
Typical Coverage:	Up to 10 kilometers

Optical Characteristics (T= 0° C – 70° C; Vcc= 3.1 – 3.5 V)

	Min.	Typ.	Max	Unit
Output Optical Power (P _{OUT})	-9	----	-3	dBm
Extinction Ratio (E _R)	9	----	----	dB
Optical Input Power (P _{IN})	----	----	-3	dBm
Sensitivity (P _{IN})	----	----	-20	dBm
Optical Return Loss (OLR)	12	----	----	dB
Loss of Signal - Asserted (LOS _A)	-35	----	----	dBm
Loss of Signal - Deasserted (LOS _B)	----	----	-20	dBm

Standards Compliance

Network:	IEEE 802.3z Gigabit Ethernet
Safety:	Class 1 Laser complies with IEC 60825-1
Regulatory:	UL 94V-0

Physical and Environmental

Case:	Chrome metal
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Dimensions (L x W x H): 2.23 x 0.54 x 0.33 inches (56.64 x 13.72 x 8.46 mm)
 Weight: About 0.1 pounds (0.05 Kg)
 Power: 3.3 VDC
 Storage Temperature: -40° to 85° C
 Operating Temperature: 0° to 70° C
 Relative Humidity: 5% to 95% non-condensing

SPECIFICATIONS – M1000LZ

Overview

LAN: Fiber Gigabit Ethernet : LC connector
 Form Factor: Small Form Factor Pluggable MSA compliant
 Wavelength: 1550 nm
 Fiber Type: Single-mode (SMF)
 Typical Coverage: Up to 80 kilometers

Optical Characteristics (T= -10° C – 70° C; Vcc=3.0 – 3.6 V)

	Min.	Typ.	Max	Unit
Output Optical Power (P _{OUT})	0	----	5	dBm
Extinction Ratio (E _R)	9	----	----	dB
Optical Input Power (P _{IN})	---	----	0	dBm
Sensitivity (P _{IN})	----	----	-22	dBm
Optical Return Loss (OLR)	12	----	----	dB
Loss of Signal - Asserted (LOS _A)	-30	-25	----	dBm
Loss of Signal - Deasserted (LOS _D)	----	-23	-19	dBm

Standards Compliance

Network: IEEE 802.3z Gigabit Ethernet
 Safety: Class 1 Laser complies with IEC 60825-1
 Regulatory: EN (IEC) 60950

Physical and Environmental

Case: Chrome metal
 Dimensions (L x W x H): 2.23 x 0.54 x 0.33 inches (56.64 x 13.72 x 8.46 mm)
 Weight: About 0.1 pounds (0.05 Kg)
 Power: 3.3 VDC
 Storage Temperature: -40° to 85° C
 Operating Temperature: 0° to 70° C
 Relative Humidity: 0% to 85% non-condensing

Support

Technical Support: 24-hour support via web and ftp. 2-year email and telephone support
 Product Warranty: 2-year product warranty covers defects in manufacturing and workmanship

Packing List

Product: SFP M1000SX, SFP M1000LX, or SFP M1000LZ module
 Documentation: Read Me First

ORDERING INFORMATION

Model Name	Description
SFP M1000SX	1000BaseSX SFP MiniGBIC module
SFP M1000LX	1000BaseLX SFP MiniGBIC module
SFP M1000LZ	1000BaseLZ SFP MiniGBIC module



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