



MG-1000 Series V2



1000Base-T SX LX SFP Modules

The MG-1000 series V2 Small Form-Factor (SFP) Pluggable Gigabit Modules serve the purpose of extending network transfer distances. Attached to Edimax switches, the modules have the ability to extend distances to several kilometers or even tens of kilometers based on network demand, which in turn lowers costs. The MG-1000 series V2 SFP modules are also compatible with a large range of Gigabit Ethernet connectivity options for enterprise, data center and service provider applications.

KEY FEATURES

- Compliant with IEEE 802.3z Gigabit Ethernet and Fiber Channel standard
- Supports full-duplex
- Plug-and-Play & Hot Pluggable
- Supports Pull-or-Plug with power on switches
- Power: Internal power from switches
- Compliant with Small Form Factor Pluggable MSA
- Compliant with Class 1 Laser International Safety Standard IEC 825
- Complies with EN60825-1 and FDA 21 CFR 1040.10 and 1040.11

PRODUCT INFORMATION

Model Number	Wavelength	Connector Type	Media	Power (dBm)	Sensitivity	Power Budget	Distance	Application
MG-1000AMA V2	850 nm	LC	MMF	-3 ~ -10	-20 dBm	8.2 dB	550m	Multi-mode Fiber
MG-1000AMAI*	850 nm	LC	MMF	-3 ~ -10	-20 dBm	8.2 dB	550m	Multi-mode Fiber
MG-1000AMB V2	1310 nm	LC	MMF	0 ~ -10	-20 dBm	10.0 dB	2km	Multi-mode Fiber
MG-1000AMBI*	1310 nm	LC	MMF	0 ~ -10	-20 dBm	10.0 dB	2km	Multi-mode Fiber
MG-1000AS1 V2	1310 nm	LC	SMF	-3 ~ -9.5	-21 dBm	10.5 dB	10km	Single-mode Fiber
MG-1000AS1I*	1310 nm	LC	SMF	-3 ~ -9.5	-21 dBm	10.5 dB	10km	Single-mode Fiber
MG-1000AS3 V2	1310 nm	LC	SMF	-3 ~ -9.5	-21 dBm	10.5 dB	30km	Single-mode Fiber
MG-1000PU1 V2	T1310/R1550	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber
MG-1000PU1I*	T1310/R1550	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber
MG-1000PD1 V2	T1550/R1310	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber
MG-1000PD1I*	T1550/R1310	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber

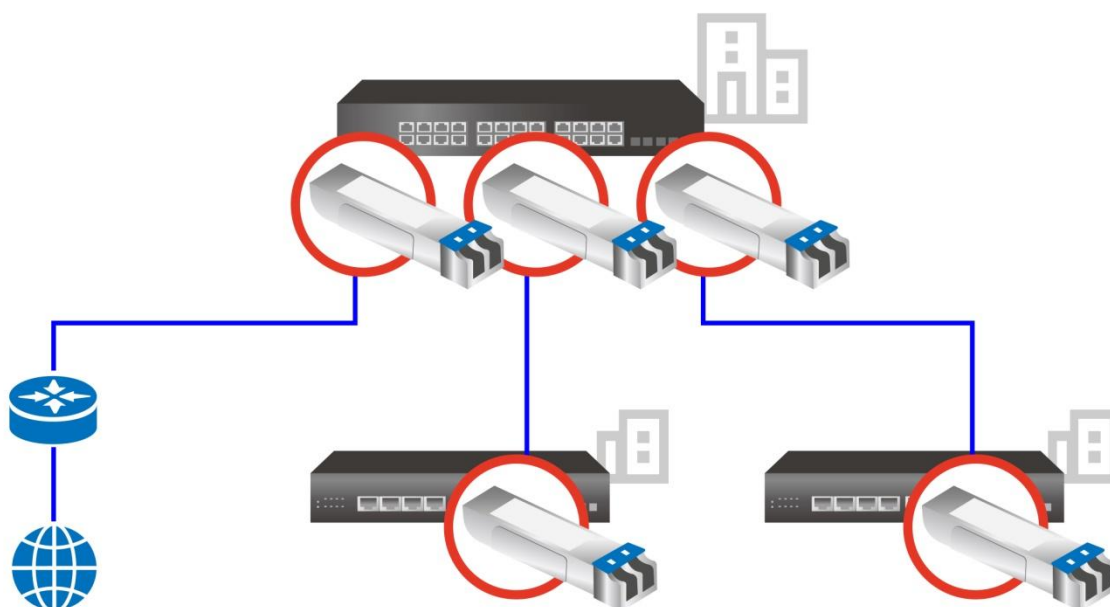
*Industrial Grade SFP, supports robust design for enhanced reliability in industrial grade, operating temperature: -40°C~85°C

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SPECIFICATIONS

Hardware	
Wave Length	•850nm for MG-1000AMA V2, MG-1000AMAI* •1310nm for MG-1000AMB V2, MG-1000AMBI*, MG-1000AS1 V2, MG-1000AS1I*, MG-1000AS3 V2 •TX: 1310nm / RX: 1550nm for MG-1000PU1 V2, MG-1000PU1I* •TX: 1550nm / RX: 1310nm for MG-1000PD1 V2, MG-1000PD1I*
Power Supply	3.3V
Cable	•Multi-mode Fiber for MG-1000AMA V2, MG-1000AMAI*, MG-1000AMB V2, MG-1000AMBI* •Single-mode Fiber for MG-1000AS1 V2, MG-1000AS1I*, MG-1000AS3 V2, MG-1000PU1 V2, MG-1000PU1I*, MG-1000PD1 V2, MG-1000PD1I*
Fiber Type	•50/125µm or 62.5/125µm Multi-mode •9/125 µm Single-mode
Max. Cable Length	•550m for MG-1000AMA V2, MG-1000AMAI* •2km for MG-1000AMB V2, MG-1000AMBI* •10km for MG-1000AS1 V2, MG-1000AS1I*, MG-1000PU1 V2, MG-1000PU1I*, MG-1000PD1 V2, MG-1000PD1I* •30km for MG-1000AS3 V2
Data Rate	1.25Gbps
Port Type	LC/UPC
Environment	
Temperature	Commercial Operation Temperature: 0 ~ 70 °C Industrial Operation Temperature: -40 ~ 85 °C Storage: -40 ~ 85 °C
Humidity (Non-condensing)	Operating: 10 ~ 90% Storage: 5 ~ 90%
Standards Compliance	
Standards and Protocols	IEEE 802.3z 1000Base-X CSMA/CD TCP/IP
Certifications	FCC, CE

APPLICATION DIAGRAM



Maximum performance and actual data rates will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.
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