

GPIM-08 Reference Sheet

The GPIM-08 Gigabit Ethernet Port Interface Module is a single-mode fiber-optic interface device that can be installed into an Enterasys Networks device that supports Enterasys Networks Gigabit Ethernet Port Interface Modules. Check the documentation of your host device to see if it will support the GPIM-08.

FEATURES/SPECIFICATIONS

Refer to [Table 1](#) for the GPIM-08 features and optical specifications.

Table 1 Features and Optical Specifications

Features	Optical Specifications	
Supports single-mode fiber-optic cable segments up to 70 km ¹	Cable Type	10 µm SMF
	Maximum Input Power	-3 dBm
1550 nm wavelength	Transmit Power	0 dBm minimum +5 dBm maximum
Duplex SC style fiber-optic connector	Receive Sensitivity	-22 dBm
Full Duplex only	Link Power Budget	22 dB
These specifications meet or exceed IEEE 802.3 1000BASE-LX requirements.		

1. The maximum drive distance (up to 70 km) depends on the quality of the installed single-mode fiber-optic cable segment. Use the link power budget (22 dB) to calculate the maximum cable length of the attached segment. The link power budget must not exceed **22 dB** as specified in this table. When using cable lengths less than 50 km, ensure that the cable has at least 3 dB of attenuation. The GPIM-08 input power must not exceed -3 dBm. Otherwise, saturation could occur.

SAFETY INFORMATION

CLASS 1 LASER TRANSCEIVERS

THE GPIM-08 GIGABIT ETHERNET INTERFACE MODULE USES A CLASS 1 LASER TRANSCEIVER. READ THE FOLLOWING SAFETY INFORMATION BEFORE INSTALLING OR OPERATING THIS MODULE.

The Class 1 laser transceivers use an optical feedback loop to maintain Class 1 operation limits. This control loop eliminates the need for maintenance checks or adjustments. The output is factory set, and does not allow any user adjustment. Class 1 laser transceivers comply with the following safety standards:

- 21 CFR 1040.10 and 1040.11 U.S. Department of Health and Human Services (FDA).
- IEC Publication 825 (International Electrotechnical Commission).
- CENELEC EN 60825 (European Committee for Electrotechnical Standardization).

When operating within their performance limitations, laser transceiver output meets the Class 1 accessible emission limit of all three standards. Class 1 levels of laser radiation are not considered hazardous.

SAFETY INFORMATION

CLASS 1 LASER TRANSCEIVERS

LASER RADIATION AND CONNECTORS

When the connector is in place, all laser radiation remains within the fiber. The maximum amount of radiant power exiting the fiber (under normal conditions) is -12.6 dBm or 55×10^{-6} watts.

Removing the optical connector from the transceiver allows laser radiation to emit directly from the optical port. The maximum radiance from the optical port (under worst case conditions) is 0.8 W cm^{-2} or $8 \times 10^3 \text{ W m}^{-2} \text{ sr}^{-1}$.

Do not use optical instruments to view the laser output. The use of optical instruments to view laser output increases eye hazard. When viewing the output optical port, power must be removed from the network adapter.

INSTALLATION

To install the GPIM-08, refer to the installation instructions for optional Fast Ethernet Interface Modules described in the user's guide for the host device.

REGULATORY COMPLIANCE

This equipment meets the following safety and electromagnetic compatibility (EMC) requirements:

Safety: UL 1950, CSA C22.2 No. 950, EN 60950, IEC 950, and 73/23/EEC

Electromagnetic Compatibility (EMC): FCC Part 15, EN 55022, CSA C108.8, EN 50082-1, AS/NZS 3548, VCCI V-3, and 89/336/EEC

GETTING HELP

For additional support related to the module or this document, contact Enterasys Networks using one of the following methods:

World Wide Web	http://www.enterasys.com/
Phone	(603) 332-9400
Internet mail	support@enterasys.com
FTP	ftp://ftp.enterasys.com
Login	<i>anonymous</i>
Password	<i>your email address</i>

To send comments or suggestions concerning this document, contact the Technical Writing Department via the following email address: **TechWriting@enterasys.com**

Make sure to include the document Part Number in the email message.

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