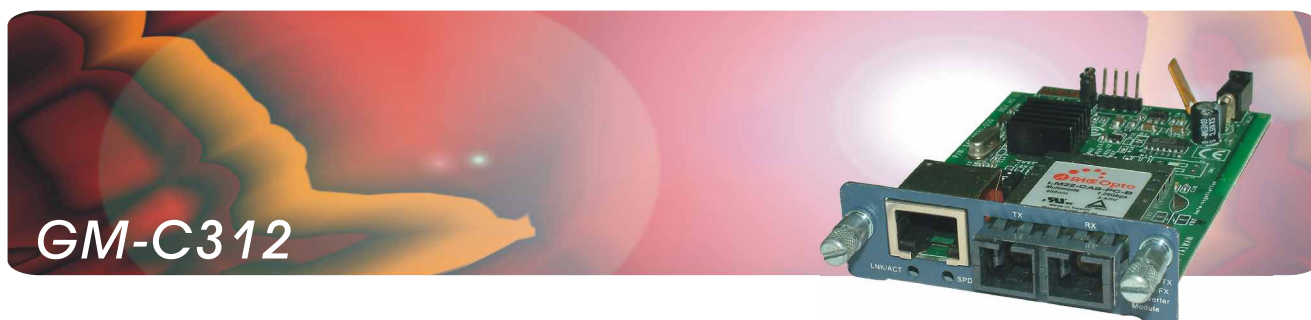




GM-C312:

1000Base-T to 1000Base-X Gigabit Ethernet Converter Module

Key Features

- 1000Base-T to 1000Base-SX/LX Gigabit Ethernet converter module
- Supports hot-swappable
- Complies with IEEE802.3ab/IEEE802.3z/IEEE802.3x standards
- Supports auto-MDIX & auto-negotiation
- Supports full-duplex & half-duplex operation and flow control
- Available fiber distances range from 220m in multi-mode, and up to 50km in single mode, flexibly linking distance
- Supports Q-in-Q double tagged frame transparent
- Jumble frame and low-latency data transfer
- RoHS Compliance

Overview

GM-C312 complies with IEEE802.3z/AB 1000Mbps Gigabit Ethernet that supports two types of media for network connection such as 1000Base-T and 1000Base-SX/LX. The media converter is designed to connect two types of segments to operate smoothly.

Technical Specifications

Standards Compliance:

- IEEE 802.3ab 1000Base-T specification
- IEEE 802.3z 1000Base-X specification
- IEEE 802.3x full-duplex flow control specification
- 1000Base-SX/1000Base-LX Gigabit Ethernet Fiber specification

Maximum Switching Ports:

The maximum service port capability: 2 Gigabit Ethernet ports

Network Interface:

1000Base-T:

- Connectors: RJ-45
- Auto-Negotiation
- Auto-MDIX
- Transmission: Full-Duplex only
- Max. Cable Length: up to 100m

1000Base-SX (Multi mode):

- Connectors: SC/LC
- Auto-Negotiation
- Transmission: Full-Duplex only
- Max. Cable Length: 550m for 50/125μm
- Wavelength: 850nm

1000Base-LX (Single mode):

- Connectors: SC / Bidi-SC / Bidi-SFF/LC
- Auto-Negotiation
- Transmission: Full-Duplex
- Max. Cable Length: 50Km for 9/125μm
- Wavelength: 1310nm or 1550nm

Emission and Safety Regulations:

Complies with FCC Part 15 Class A & CE Mark Approval

Fiber Cable Limitations:

	Multi-Mode Fiber 62.5/125μm		Multi-Mode Fiber 50/125μm	
	Bandwidth MHz-Km	Distance	Bandwidth MHz-Km	Distance
1000SX 850nm	160	220m	400	500m
	200	275m	500	550m
1000LX 1310nm/1550nm	Single-Mode Fiber 9/125mm Single-Mode transceiver 1310nm: 10Km Single-Mode transceiver 1550nm: 30/50Km			

• LED Description:

LED	Color	Function
PWR	Green	Lit when +5V power is coming up
TP LNK/ACT	Green	Lit when TP connection is good Blinks when any traffic is present
FX LNK	Green	Lit when port SFP fiber connection is good Blinks when any traffic is present

- **Power Requirement:** 0.6A@+3.3VDC
- **Consumption:** 1.98W
- **Ambient Temperature:** 0 to 40°C
- **Humidity:** 5% to 90%
- **Dimensions:** 83(L) X 60(W) mm

Ordering Information

GM-C312SC	1000Base-T to 1000Base-X converter module, SC Multi-Mode
GM-C312SC.S10	1000Base-T to 1000Base-X converter module, SC Single-Mode 10Km
GM-C312SC.S30	1000Base-T to 1000Base-X converter module, SC Single-Mode 30Km
GM-C312SC.S50	1000Base-T to 1000Base-X converter module, SC Single-Mode 50Km
GM-C312BS5.S20	1000Base-T to 1000Base-X converter module, Bidi SC Single-Mode 20Km, 1550nm
GM-C312BS3.S20	1000Base-T to 1000Base-X converter module, Bidi SC Single-Mode 20Km, 1310nm

Related Ordering Information

2-Slot Smart Media Converter Chassis	
CR-1200RAC	12-Slot Smart Media Converter Chassis with Dual AC Input Redundant Power Supply
CR-1200RADC	12-Slot Smart Media Converter Chassis with AC+ DC Input Redundant Power Supply
CR-1200RDC	12-Slot Smart Media Converter Chassis with Dual DC Input Redundant Power Supply
CR-1200AC	12-Slot Smart Media Converter Chassis with Single AC Input Redundant Power Supply
CR-1200DC	12-Slot Smart Media Converter Chassis with Single DC Input Redundant Power Supply
CR-2020-P01	1U AC Power Module (for CR-2326M, CR-1200)
CR-2020-P02	1U DC Power Module (for CR-2326M, CR-1200)

10/100Base-TX to 100Base-FX Converter Module for CR-1200	
EM-C201SC	10/100Base-TX to 100Base-FX Converter Module, SC Multi-Mode
EM-C201ST	10/100Base-TX to 100Base-FX Converter Module, ST Multi-Mode
EM-C201MT	10/100Base-TX to 100Base-FX Converter Module, MT-RJ Multi-Mode
EM-C201SC.S05	10/100Base-TX to 100Base-FX Converter Module, SC Single-Mode 5Km
EM-C201SC.S20	10/100Base-TX to 100Base-FX Converter Module, SC Single-Mode 20Km
EM-C201SC.S40	10/100Base-TX to 100Base-FX Converter Module, SC Single-Mode 40Km
EM-C201SC.S60	10/100Base-TX to 100Base-FX Converter Module, SC Single-Mode 60Km
EM-C201BS5.S20	10/100Base-TX to 100Base-FX Converter Module, Bidi SC Single-Mode 20Km, 1550nm
EM-C201BS3.S20	10/100Base-TX to 100Base-FX Converter Module, Bidi SC Single-Mode 20Km, 1310nm
EM-C201BS5.S40	10/100Base-TX to 100Base-FX Converter Module, Bidi SC Single-Mode 40Km, 1550nm
EM-C201BS3.S40	10/100Base-TX to 100Base-FX Converter Module, Bidi SC Single-Mode 40Km, 1310nm
EM-C201BS5.S60	10/100Base-TX to 100Base-FX Converter Module, Bidi SC Single-Mode 60Km, 1550nm
EM-C201BS3.S60	10/100Base-TX to 100Base-FX Converter Module, Bidi SC Single-Mode 60Km, 1310nm