

EX-9543G-MM/SM User's Manual

10/100/1000Base-T to 1000Base SX/LX Fiber Optic Media Converter

fully compliant with the IEEE
802.3ab 1000Base-T /802.3az
1000Base SX/LX
Standard



10/100/1000TX / 1000FX Fiber Optic Converter

It is a Gigabit Ethernet 10/100/1000Base-T to Fiber 1000Base-SX/LX Media converter, which is fully compliant with the IEEE 802.3ab / IEEE 802.3az standard, features one fiber port using SC / LC connector and one STP RJ-45 10/100/1000Base-T port. It supports conversion of Gigabit Ethernet port to fiber optic cabling. It is automatic for either full or half duplex mode. Full-duplex cabling provides bandwidth of up to 2Gbps and allows for transmission distance up to 550m over multi-mode fiber or up to 80 km over single-mode fiber.

EX-9543G-MM/SM supports Link Loss Carry Forward (LLCF) bi-direction Function, The Converter can detect and indicate the remote-side copper port or fiber port Link fails, and force TP and Fiber links down on both side, and when the Linkage was resumed, it will link again automatically.

EX-9543G-MM/SM also supports upto 9KBytes Jumbo frame packet to enhance network performance, and supports Green Ethernet power saving mode for copper port, It will detect Link status and cable length (for gigabit links only) and adjust power usage automatically.

Specifications

- IEEE802.3 10Base-T / IEEE802.3u 100Base-TX / IEEE802.3ab1000Base-T/IEEE802.3z 1000Base-SX/LX IEEE802.3x Flow Control standards
- Features STP and Fiber connector
 - RJ45 and SC connector (multi-mode)
 - RJ45 and SC connector (single-mode)
- Data Transfer Rate: 10/100Mbps(half duplex), 20/200Mbps(Full duplex) 1000/2000Mbps (Full duplex)
- Auto-MDIX for 10/100/1000 STP port
- Support Store-and-Forward and Smart Pass-Through forward mode.
- Support upto 9K bytes Jumbo packet size.
- Support High-performance QoS functions
 - Four Priority Queues per port
 - Port-based, 802.1Q-based, DSCP-based
 - IP-based, ACL-based priority
 - Weighted round robin service
- Support 802.1x and 802.31D.
- TX Duplex Mode: Full or Half duplex mode (default : Auto-Negotiation)
- LED: Power, speed, FX Link/Act, TX Link/Act and, LLCF.
- Power Requirement: Max. 2.5 Watt (external switching power adapter DC5V / 1.5A)

- Ambient Temperature: 0 to 40
- Humidity: 5% to 90% RH(operating)
- Dimension: 22(H) x 125(W) x 75 mm (L)
- Cable:

UTP: Cat. 5 / Cat. 5e / Cat. 6 UTP/STP cable

Fiber: 1000Base-SX : 50/125um Multi-mode Fiber
 optic cable, upto 220M , 62.5/125um multi-mode
 Fiber optic cable, upto 550M.
 1000Base-LX : 9/125um Single Mode Fiber
 Optic cable . upto 120Km , It depends on the
 Fiber transceiver.

10/100/1000TX / 1000FX Fiber Optic Media Converter

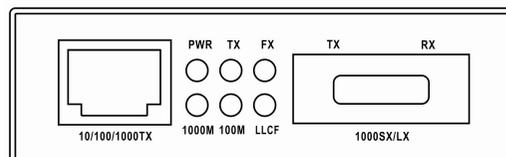
Package Contents

Before going any further, please make sure that you have the following parts in this package.

- One EX-9543G-MM/SM Fiber Optic converter
- One External AC to DC power adapter (5V DC 1.5A)
- One user's manual

NOTE: Please DO NOT use any other power adapter for EX-9543G-MM/SM.

Panel Contents :



EX-9543G-MM/SM Front Panel

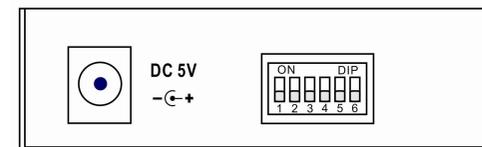
LED Indicator

| LED | Mark | State | Description |
|---------------|------|----------|--|
| POWER | PWR | ON | Power is received |
| | | OFF | Power is not received |
| 100Mbps speed | 100M | ON | TP port work on 10M or 100M speed |
| | | ON | TP port work on 1000M speed |
| TX Link/Act | TX | ON | A TX port good Link status has been established. |
| | | Blinking | During Data Transfer or Receiving |
| FX Link/Act | FX | ON | A FX port good Link status has been established. |
| | | Blinking | During Data Transfer or Receiving |
| LLCF | LLCF | ON | Remote Link Fails was detected |

Port Description:

| PORT | Mark | Description |
|-------------|---------------|--|
| Copper port | 10/100/1000TX | It is connected to LAN card or connected to Switch hub. |
| Fiber port | 1000SX/LX | It is connected to other end of Fiber Optic Transceiver. |

****Note : The TX port support Auto-negotiation for 10/100/1000M and Auto-MDI/MDIX capability.**



EX-9543G-MM/SM Real Panel

DIP Switches Setting :

| DIP | Setting | Function |
|-------|---------|--|
| DIP 1 | ON | Enable Jumbo packet 9k bytes Function |
| DIP 2 | ON | Enable Gigabit Green Function |
| DIP 3 | ON | Set Fiber port work on 100Base-FX mode (depends on Fiber Transceiver) |
| DIP 4 | ON | Enable Link Loss Carry Forward LLCFF Function |
| DIP 5 | ON | Enable Smart Pass Through Mode |
| DIP 6 | ON | Disable Fiber port Auto-Negotiation |

(All DIP Switches Default setting are OFF)

Warning : When the setting of DIP switches is changed, the power has to be turned OFF and new setting will be effective after turned power ON again.

Ordering Information:

EX-9543G-MM : 10/100/1000TX to 1000Base-SX/LX Media Converter
 SC connector, Multi-mode 550M

EX-9543G-SM : 10/100/1000TX to 1000Base-SX/LX Media Converter.
 SC connector, Single-mode
 10/40/60/80Km(optional)