

Cisco 1000BASE-T Gigabit Interface Converter

The Cisco 1000BASE-T Gigabit Interface Converter (GBIC) is an ideal solution for Catalyst® 6500, 4500, 3550, 2950, 3500 XL, and 2900 XL Series switches to provide full-duplex Gigabit Ethernet connectivity to high-end workstations and between wiring closets over existing copper network infrastructures. This GBIC technology leverages the industry’s flexible, standards-based 1000BASE-X design, allowing for a simple and low-cost migration path to Gigabit Ethernet.

Adding the new 1000BASE-T GBIC to the company’s range of media transceivers enhances the flexibility of deployment and application for Cisco’s comprehensive line of modular and desktop platforms. Other media transceivers include multiple stacking options, short-and long-haul fiber, and copper connectivity (including SX, LX/LH, ZX, TX, CWDM, and Cisco GigaStack® GBICs).

Product Applications

There are two key product applications for the Cisco 1000BASE-T GBIC:

- Connectivity to High-End Workstations

The 1000BASE-T GBIC can be deployed in the Gigabit Ethernet GBIC ports of the Catalyst 6500, 4500, 3550, 3500 XL, and 2900 XL switches to provide Gigabit Ethernet connectivity over copper to high-end workstations.

- Distribution and Wiring Closet Interconnectivity

The 1000BASE-T GBIC can be deployed in the Catalyst 6500, 4500, 3550, 2950, 3500 XL, and Gigabit-enabled Catalyst 2900 XL switches to provide Gigabit

Ethernet connectivity over copper between the distribution layer and wiring closet.

Key Benefits and Features

The following is a summary of the 1000BASE-T GBIC key features and benefits:

Flexible Gigabit Ethernet Connectivity

- *Hot swappable*—when deployed, the switch does not have to reboot
- *Auto-sense MDI-X*—auto configures to MDI straight-through or MDI-X cross-over depending on the type of cable connection
- *Interchangeable*—allows users the flexibility to deploy other 1000BASE-X GBICs in the future (including SX, LX/LH, ZX, TX, CWDM, and GigaStack GBICs)

Ease of Use and Ease of Deployment

- Leverages simplicity of 1000BASE-X design, offering “plug-and-play” deployment
- Has self-locking mechanism ensuring that GBIC is installed correctly and is secured in switch

Figure 1 The one-port Cisco 1000BASE-T GBIC delivers high-speed connectivity for stackable switches to high-end workstations and provides Gigabit Ethernet interconnectivity between wiring closets.





- Manageable through Web-based Cisco Cluster Management Suite (CMS) and Cisco IOS® Software
- Switch or line card LED displays indicate link status, link activity and link fault
- Supports new authentication feature that enables the user to easily identify whether the GBIC is an authentic Cisco GBIC
- WS-C3548-XL-EN
- WS-C3508G-XL-EN

Technical Specifications

Performance

The Cisco 1000BASE-T GBIC supports 1000 Mbps full-duplex connections.

Refer to the 100BASE-T GBIC Switch Compatibility Matrix for the most current listing of supported products:

http://cisco.com/en/US/products/hw/modules/ps872/products_quick_reference_guide09186a0080189949.html

Supported Products

Catalyst 2900 Series XL

- WS-C2912MF-XL
- WS-C2924M-XL-EN
- WS-X2931-XL

Catalyst 2900 Family

- WS-C2948G (only one WS-G5483= is supported)
- WS-C2980G-A

Catalyst 2950 Series

- WS-C2950G-12-EI
- WS-C2950G-24-EI
- WS-C2950G-24-EI-DC
- WS-C2950G-48-EI

Catalyst 3500 Series XL

- WS-C3512-XL-EN
- WS-C3524-XL-EN
- WS-C3524-PWR-XL-EN

Catalyst 3550 Series

- WS-C3550-24-SMI
- WS-C3550-24-EMI
- WS-C3550-24PWR-SMI
- WS-C3550-24PWR-EMI
- WS-C3550-24-DC-SMI
- WS-C3550-24-FX-SMI
- WS-C3550-48-SMI
- WS-C3550-48-EMI
- WS-C3550-12G
- WS-C3550-12T

Catalyst 4500/4000 Series

- WS-X4232-RJ-XX
- WS-X4232-GB-RJ
- WS-X4306-GB
- WS-X4412-2GB-T
- WS-X4013
- WS-X4014¹

- WS-X4515¹
- WS-C4912G

Catalyst 6500 Series

- WS-X6K-SUP1-2GE
- WS-X6K-SUP1A-2GE
- WS-X6K-SUP1A-PFC
- WS-X6K-S1A-MSFC2
- WS-X6K-S2-PFC2
- WS-X6K-S2U-PFC2
- WS-X6K-S2-MSFC2
- WS-X6K-S2U-MSFC2
- WS-X6408-GBIC
- WS-X6408A-GBIC
- WS-X6416-GBIC
- WS-X6516-GBIC
- WS-X6816-GBIC

Standards

IEEE 802.3ab

1. Will be supported in Q1CY03



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Connectors and Cabling

- Connector: RJ-45
- Cable: Category 5 UTP
- Cabling distance (maximum): 328-ft (100m)

Indicators

Link status, link activity and link fault

Dimensions and Weight (H x W x D)

- 0.75 x 1.55 x 4.32 in. (1.78 x 3.94 x 10.97 cm)
- 0.11 lb (0.05 kg)

Environmental Conditions and Power Requirements

- Operating temperature: 32 to 113 F (0 to 45 C)
- Storage temperature: -4 to 149 F (-10 to 65 C)
- Operating relative humidity: 10 to 85 percent non-condensing
- Operating altitude: up to 10,000 ft (3000 m)
- Power consumption: 1.5 W
- MTBF: 2.5 million hours

Electromagnetic Emissions Certifications

- FCC Part 15 Class A
- EN 55022B Class A (CISPR 22 Class A)
- VCCI Class A
- BCMI
- CE

Warranty

Limited lifetime warranty

Ordering Information

Model Number: WS-G5483= (Cisco 1000BASE-T GBIC)

For More Information on Cisco Products, Contact:

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