

# cisco 1000BaseT GBIC



The Cisco 1000BaseT Gigabit Interface Converter (GBIC) is an ideal solution for Catalyst® 3500 Series XL and Catalyst 2900 Series XL customers, providing full duplex Gigabit Ethernet connectivity to high-end workstations and between wiring closets over existing copper infrastructures. This GBIC technology leverages the industry's flexible, standards-based 1000BaseX design, allowing for a simple and low-cost migration path to Gigabit Ethernet.

The availability of the new 1000BaseT GBIC increases the deployment and application of the Catalyst 3500 Series XL and 2900 Series XL with a range of media transceivers that include multiple stacking options, short-and long-haul fiber, and copper connectivity (including SX, LX/LH, ZX, TX, and Cisco GigaStack™ converters).

#### Product Applications

The two key product applications for the Cisco 1000BaseT GBIC are defined as follows:

#### Connectivity to High-End Workstations

The 1000BaseT GBIC can be deployed in the Gigabit Ethernet GBIC ports of the Catalyst 3500 Series XL and Gigabit-enabled 2900 Series XL switches to provide Gigabit Ethernet connectivity over copper to high-end workstations.

#### Wiring Closet Interconnectivity

The 1000BaseT GBIC can be deployed in Catalyst 3500 Series XL switches to provide Gigabit Ethernet connectivity over copper between wiring closets.

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



#### Key Benefits and Features

The following is a summary of the 1000BaseT GBIC key features and benefits.

#### Flexible Gigabit Ethernet Connectivity

- Hot swappable when deployed, the switch does not have to reboot
- Interchangeable allows users the flexibility to deploy other 1000BaseX GBICs in the future (including SX, LX/LH, ZX, TX, and GigaStack converters)

#### Ease of Use and Ease of Deployment

- Leverages simplicity of 1000BaseX design, offering “plug-n-play” deployment
- Has self-locking mechanism ensuring that the GBIC is installed correctly and is secured in switch
- Manageable through Web-based Cluster Management Suite (CMS) and Cisco IOS® software
- Switch LED displays indicate link status, link activity and link fault

## Technical Specifications

### Performance

The Cisco 1000BaseT GBIC supports 1000 Mbps full-duplex connections

### Supported Products

- Catalyst 2912MF XL
- Catalyst 2924M XL
- Catalyst 3508G XL
- Catalyst 3512 XL
- Catalyst 3524 XL
- Catalyst 3524-PWR XL
- Catalyst 3548 XL

### Standards

IEEE 802.3ab

### 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 noncondensing
- Operating altitude: up to 10,000-ft (3000 m)
- Power consumption: 2.85 W
- MTBF 2.5 million hours

### Safety Certifications

- UL 1950
- CSA 22.2 No. 950
- EN 60950
- IEC 950
- AS/NZS 3260, TS001
- CE

### Electromagnetic Emissions Certifications

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

### Warranty

Lifetime limited warranty

### Ordering Information

Model Number: WS-G5482 (Cisco 1000BaseT GBIC)

### For More Information on Cisco Products, Contact:

- U.S. and Canada: 800 553-NETS (6387)
- Europe: 32 2 778 4242
- Australia: 612 9935 4107
- Other: 408 526-7209
- World Wide Web URL: <http://www.cisco.com>



#### Corporate Headquarters

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
[www.cisco.com](http://www.cisco.com)  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 526-4100

#### European Headquarters

Cisco Systems Europe  
11, Rue Camille Desmoulins  
92782 Issy-les-Moulineaux  
Cedex 9  
France  
[www.cisco.com](http://www.cisco.com)  
Tel: 33 1 58 04 60 00  
Fax: 33 1 58 04 61 00

#### Americas Headquarters

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
[www.cisco.com](http://www.cisco.com)  
Tel: 408 526-7660  
Fax: 408 527-0883

#### Asia Pacific Headquarters

Cisco Systems Australia, Pty., Ltd  
Level 17, 99 Walker Street  
North Sydney  
NSW 2059 Australia  
[www.cisco.com](http://www.cisco.com)  
Tel: +61 2 8448 7100  
Fax: +61 2 9957 4350

**Cisco Systems has more than 190 offices in the following countries. Addresses, phone numbers, and fax numbers are listed on the Cisco.com Web site at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China • Colombia • Costa Rica • Croatia • Czech Republic • Denmark • Dubai, UAE  
Finland • France • Germany • Greece • Hong Kong • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The  
Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia  
Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2000, Cisco Systems, Inc. All rights reserved. GigaStack is a trademark, and Cisco, Cisco IOS, Cisco Systems, Catalyst, and the Cisco Systems logo are registered trademarks of Cisco Systems, Inc. or its affiliates in the U.S. and certain other countries. All other brands, names, or trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0009R)