



Preface

Audience

This guide is for the technician installing the GigaStack Gigabit Interface Converter (GBIC), hereafter referred to as the GigaStack GBIC. Before using this guide, make sure that you are familiar with the concepts and terminology of Ethernet and local-area networking.

Purpose

This guide describes how to install the GigaStack GBIC and troubleshoot problems associated with its installation.



Note

The GigaStack GBICs and their ports are managed through one of the management interfaces of a Gigabit-capable switch. For more information about managing GigaStack GBICs, refer to the software configuration guides for the Catalyst 2900 series XL, the Catalyst 2950, the Catalyst 3500 series XL, and the Catalyst 3550 multilayer switches.

Organization

This guide is organized into the following chapters:

[Chapter 1, “Overview,”](#) describes the key features, provides a physical description, and shows how the GigaStack GBICs can be deployed in real networks.

[Chapter 2, “Installation,”](#) explains how to install the GigaStack GBIC.

[Chapter 3, “Troubleshooting,”](#) describes how to identify and resolve common installation and cabling problems.

[Appendix A, “Technical Specifications,”](#) lists the physical and environmental specifications and the regulatory agency approvals.

[Appendix B, “Connectors and Cables,”](#) describes the cables and connectors that can connect to the GigaStack GBIC ports.

[Appendix C, “Translated Safety Warnings,”](#) contains translations of the warnings in this guide.

Notes, Cautions, and Warnings

Notes, cautions, and warnings use the following conventions and symbols:



Note

Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in this manual.



Caution

Means reader be careful. In this situation, you might do something that could result in equipment damage or loss of data.

**Warning**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with the standard practices for preventing accidents. The warning symbol also means that you can see the warning in multiple languages in [“Appendix C, “Translated Safety Warnings.”](#)

Waarschuwing

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van standaard maatregelen om ongelukken te voorkomen. Het waarschuwingssymbool betekent ook dat u de waarschuwing in meerdere talen in [Appendix C, “Translated Safety Warnings”](#) kunt vinden.

Varoitus

Tämä varoitusmerkki merkitsee vaaraa. Olet tilanteessa, joka voi johtaa ruumiinvammaan. Ennen kuin työskentelet minkään laitteiston parissa, ota selvää sähkökytkentöihin liittyvistä vaaroista ja tavanomaisista onnettomuuksien ehkäisykeinoista. Varoitusmerkki tarkoittaa myös sitä, että varoitus esiintyy useilla kielillä osassa [Appendix C, “Translated Safety Warnings.”](#)

Attention

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant causer des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers posés par les circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Le symbole d'avertissement signifie également que cet avis se trouve traduit dans plusieurs langues dans la section [«Appendix C, “Translated Safety Warnings”](#)».

- Warnung** Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu einer Körperverletzung führen könnte. Bevor Sie mit der Arbeit an irgendeinem Gerät beginnen, seien Sie sich der mit elektrischen Stromkreisen verbundenen Gefahren und der Standardpraktiken zur Vermeidung von Unfällen bewußt. Das Warnsymbol bedeutet auch, daß Sie die Warnung in verschiedenen Sprachen unter [Appendix C, "Translated Safety Warnings"](#) lesen können.
- Avvertenza** Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di lavorare su qualsiasi apparecchiatura, occorre conoscere i pericoli relativi ai circuiti elettrici ed essere al corrente delle pratiche standard per la prevenzione di incidenti. Il simbolo di avvertenza indica inoltre che l'avvertenza viene presentata in diverse lingue in [Appendix C, "Translated Safety Warnings."](#)
- Advarsel** Dette varselsymbolet betyr fare. Du befinner deg i en situasjon som kan føre til personskade. Før du utfører arbeid på utstyr, må du være oppmerksom på de faremomentene som elektriske kretser innebærer, samt gjøre deg kjent med vanlig praksis når det gjelder å unngå ulykker. Dette varselsymbolet betyr også at du kan lese advarselen på flere språk i «[Appendix C, "Translated Safety Warnings"](#)».
- Aviso** Este símbolo de aviso indica perigo. Encontra-se numa situação que lhe poderá causar danos físicos. Antes de começar a trabalhar com qualquer equipamento, familiarize-se com os perigos relacionados com circuitos eléctricos, e com quaisquer práticas comuns que possam prevenir possíveis acidentes. Este símbolo serve também para indicar que poderá ler este tipo de aviso em várias línguas na secção: "[Appendix C, "Translated Safety Warnings."](#)"

- ¡Atención!** Este símbolo de aviso significa peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considerar los riesgos que entraña la corriente eléctrica y familiarizarse con los procedimientos estándar de prevención de accidentes. Este símbolo de aviso también significa que la misma advertencia aparece en varios idiomas bajo el título [“Appendix C, “Translated Safety Warnings.”](#)
- Varning!** Denna varningssymbol signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanligt förfarande för att förebygga skador. Denna varningssymbol innebär också att du kan se varningsmeddelandet på flera språk i [“Appendix C, “Translated Safety Warnings.”](#)
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Related Publications

You can order printed copies of documents with a DOC-xxxxxx= number. For more information, see the [“Obtaining Documentation and Submitting a Service Request”](#) section on page xviii.

These publications provide more information about the switches that support the GigaStack GBIC:

- *Catalyst 2900 Series XL Hardware Installation Guide* (order number DOC-786461=)
- *Catalyst 2900 Series XL and Catalyst 3500 Series XL Software Configuration Guide* (order number DOC-786511=) (previously titled *Cisco IOS Desktop Switching Software Configuration Guide*)
- *Catalyst 2900 Series XL and Catalyst 3500 Series XL Command Reference* (order number DOC-7812155=) (previously titled *Cisco IOS Desktop Switching Command Reference*)
- *Catalyst 2950 Desktop Switch Hardware Installation Guide* (order number DOC-7811157=)
- *Catalyst 2950 Desktop Switch Software Configuration Guide* (order number DOC-78111380=)

- *Catalyst 2950 Desktop Switch Command Reference* (order number DOC-78111381=)
- *Catalyst 3500 Series XL Hardware Installation Guide* (order number DOC-786456=)
- *Catalyst 3550 Multilayer Switch Hardware Installation Guide* (order number DOC-7811358=)
- *Catalyst 3550 Multilayer Switch Software Configuration Guide* (order number DOC-7811194=)
- *Catalyst 3550 Multilayer Switch Command Reference* (order number DOC-7811195=)
- *Catalyst 3550 Multilayer Switch System Message Guide* (order number DOC-7811196=)
- *Release Notes for the Catalyst 2900 Series XL and Catalyst 3500 Series XL Switches Cisco IOS Release 12.0(5.1)WC(1)* or later
- *Release Notes for the Catalyst 2950 Cisco IOS Release 12.1(6)EA2* or later
- *Release Notes for the Catalyst 3550 Multilayer Switches Cisco IOS Release 12.1(4)EA1* or later

Refer to the online *Catalyst GigaStack Gigabit Interface Converter Switch Compatibility Matrix* listed with the GigaStack GBIC documentation on www.cisco.com for the list of switching products supporting the GBIC.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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