

# HP NonStop G16SE

High-bandwidth and fault-tolerant communications



## Features

- Increased scalability for demanding TCP/IP environments
- No outage or reconnect required upon a port failure
- Flexible speed and cabling options

## Overview

### G16SE

The HP NonStop G16SE enclosure is a high-bandwidth 16-port Ethernet ServerNet enclosure for the HP Integrity NonStop BladeSystem NB54000c and the HP Integrity NonStop BladeSystem NB56000c. This product meets the stringent requirements of the NonStop system, which offers continuous availability, scalability, and mission-critical capabilities. The NonStop G16SE is a follow-on product to the combination of the Input Output Adapter Modular Enclosure (IOAME) and the Gigabit 4-port ServerNet Adapter (G4SA). It requires 8U of rack space and can be separated into two 4U modules. For increased flexibility, these modules may be installed in different racks. The ports on the G16SE can be paired such that a failure of a port does not result in any outage or reconnection and does not require manual intervention. Each Ethernet port is dual-ported to both the X and Y ServerNet fabrics. This ensures that there is no outage due to a ServerNet fabric failure.

The G16SE complies with 1GbE and 10/100 Ethernet standards. It is designed to address your need for increased connectivity and performance.

### 16-port enclosure

- The 16 ports can be paired so that a single port failure can seamlessly fail over to the paired port without intervention.
- Each of the two 4U modules has four 1GbE ports and four 10/100 Ethernet ports.
- Each of the two 4U modules provides Ethernet configurations with all-copper or up to four fiber-optical interfaces. These interfaces can be changed between copper and fiber-optic without changing components.

## Key features and benefits

- One model with a variety of configuration and cabling options
- Dynamic adjustment to network traffic characteristics
- Enhanced TCP/IP support with up to 80,000 UDP/TCP connections per adapter
- Configurable MAC to override auto-negotiation settings (UTP cabling only)
- Application-compatible with previous Ethernet adapters for a smooth migration
- Support for multiple protocols (TCP/IP, IPX/SPX, Expand/IP, PAM, and SNAX over Ethernet)

A NonStop NB54000c or a NonStop NB56000c system with two c7000 blade enclosures supports up to six G16SEs per system. For a system with only one c7000 blade enclosure, you can install up to four G16SEs per system.

If your NonStop system does not have a pair of IP or Telco CLIMs, two 10/100 Ethernet ports on the first G16SE are needed for system maintenance communications. These ports can be reconfigured for customer use if a pair of IP or Telco CLIMs is added to the system later. Subsequent G16SE enclosures in the system have all 16 Ethernet ports available for application use.

The Cable Management Panel (BL8153) is an important component of the overall G16SE solution and provides clean and easy access to the Ethernet ports. This provides an elegant cabling solution and allows for quick reconfigurations.

## Flexibility and scalability

The NonStop G16SE product further increases the leadership role of NonStop systems by offering unique configuration options. It can coexist with IP and Telco CLIMs for a more flexible environment. The NonStop G16SE installs and operates in conjunction with IP and Telco CLIMs, thus maintaining your existing investment. 1GbE speeds are available on eight ports, for which both UTP copper or multimode fiber cabling is supported. As file size and transaction volume increase, the NonStop G16SE provides the kind of scalability that keeps your system at pace with the increased capacity.

## Specifications

<b>Form factor</b>	8U (two 4U modules)
<b>Weight</b>	136 lb (61.7 kg)
<b>Dimensions (Inches: H x W x D)</b>	13.8 x 19 x 29.37
<b>Number of power plugs</b>	4
<b>Power supply plug type</b>	IEC 320 C14
<b>Maximum watts RMS</b>	652
<b>NonStop system supported</b>	HP Integrity NonStop BladeSystem NB54000c and HP Integrity BladeSystem NB56000c
<b>NonStop OS versions</b>	Release RVU is J06.15 Minimum RVU is J06.14 with required SPRs
<b>Compliance with IEEE standards</b>	10 megabits per second Ethernet: IEEE 802.3—10BASE-T CSMA/CD (Ethernet) 10/100 megabits per second Fast Ethernet: IEEE 802.3u—100BASE-TX Fast Ethernet with auto-negotiation of speed 1000 megabits per second Gigabit Ethernet: IEEE 802.3ab—1000BASE-T Gigabit Ethernet and IEEE 802.3z—1000BASE-SX IEEE 802.3x—Flow control in full-duplex Ethernet LANs 1000 megabits per second Gigabit Ethernet
<b>Ethernet ports cabling requirements</b>	The procurement of cables is a customer responsibility. The G16SE uses the following standard cables that can be purchased from third-party vendors: <ul style="list-style-type: none"> <li>• CAT 5, CAT 5e, or CAT 6 UTP (4 pairs)</li> <li>• 850 nm 50/125 µm multimode fiber</li> </ul>
<b>Connectors</b>	Standard RJ-45 pin-out connector Standard LC duplex connector

## HP Technology Services

HP Technology Services help build an infrastructure that is reliable, highly available and rooted in best practices. We offer a support experience that is proactive, personalized and simplified—delivering support when and how you need. HP recommends the following services for NonStop servers:

**HP Critical Service:** High performance reactive and proactive support designed to minimize downtime. It offers an assigned support team which includes an Account Support Manager (ASM). This service offers access to HP's Global Mission Critical Solution Center, 24x7 HW and SW support, 6-hour Call-to-Repair commitment, enhanced parts inventory and accelerated escalation management.

**HP Proactive 24:** Provides proactive and reactive support delivered under the direction of an ASM. It offers 24x7 HW support with 4 hour onsite response, 24x7 SW support with 2 hour response and flexible call submittal.

**HP Installation and Start-up Services:** This service provides efficient and effective deployment of HP hardware components.

For more information on Support Services for NonStop servers, [click here](#).

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