

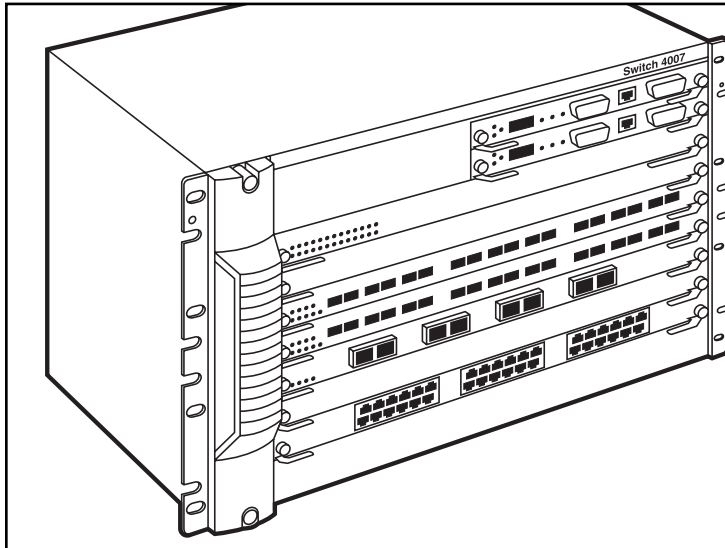


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BLACK BOX[®]

NETWORK SERVICES

3COM SWITCH 4007



A straightforward backbone in a box for your high-speed LAN.

Key Features

- ▶ ***Compact modular chassis provides aggregate wiring-centre solutions.***
- ▶ ***Preconfigured base systems mean easy installation.***
- ▶ ***Simplified administration with built-in Web-based management.***
- ▶ ***Continuous network availability for mission-critical operations.***
- ▶ ***Perfect for network managers in small and medium-sized commercial businesses.***

Need more powerful and reliable LANs to support more users as well as a broader host of applications? The 3Com[®] Switch 4007 offers a straight-forward backbone in a box for your high-speed LAN.

In addition to supporting new applications, your business will be able to access the network from anywhere. And the Switch 4007's preconfigured, customizable chassis packages allow for superior network control and easy integration.

Acting as a backbone for Superstack[®] II switches, Switch 4007 lets you adapt to the growth of your business by prioritizing traffic flows to serve user needs. And in the case of more complicated networks, the 3Com Switch 4007 provides superior

availability to the network with hardware redundancy and software resilience features.

The Switch 4007 Platform

The Switch 4007 system is available in four preinstalled configurations. Each system includes a Switch 4007 chassis, a power supply, a management module, one switch fabric, two I/O modules, and four empty payload slots. Also included are easy-to-use network management tools, such as Transcend[®] Network Supervisor, for support and troubleshooting.

Each Switch 4007 system, with the addition of I/O modules, has the capacity to be further tailored to specific network needs. Further customize the Switch as business requirements change by adding a

redundant power supply and management module, as well as optional I/O modules. It will support up to 54 Gigabit Ethernet ports.

Providing Layer 2 and 3 support for Gigabit Ethernet and Fast Ethernet aggregation, the 3Com Switch 4007 easily supports from 100 to 1,000 users.

The 3Com Switch 4007 can also help reduce operating expenses. By combining a distributed agent model with a unifying management model, the Switch is presented as a single system (with a single IP address) to the network administrator. The Switch 4007 provides network managers with the capacity they need to support mission-critical applications—without affecting overall network performance.

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Class of Service/Quality of Service (CoS)/(QoS)

The 3Com Switch 4007 prioritizes traffic flow, ensuring that bottlenecks don't occur during peak periods when congestion can build. Prioritization capabilities in the Switch allow the network to support latency-dependent applications.

The Switch 4007 carefully distinguishes between streams of the highest priority and applications of lesser priority.

Greater Control and Flexibility Is Within Your Grasp

Switch 4007 offers options in controlling traffic flows to optimize user service. It provides IEEE 802.1Q VLAN (virtual local area network) support at the logical level, enabling managers to secure workgroup traffic. The system also supports port- and protocol-based VLANs. Full IP, IPX, and AppleTalk routing enables Layer 3 segmentation and secure communications between domains.

The Switch 4007 also delivers multicast traffic more efficiently with IGMP snooping. With this traffic-management feature, traffic is sent only to those ports

participating in active multicast sessions.

Continuous Application Availability

By increasing reliability at both the device and network levels, the 3Com Switch 4007 delivers high availability for mission-critical networks.

- Device level—The Switch 4007 features distributed processing for switching and management so that traffic forwarding and management processes do not rely on any single component.
- Network level—The system offers resilient and load-sharing links, plus automatic switchover capabilities inherent to standard protocols.

Link aggregation (trunking) support allows multiple ports to form a high-bandwidth, fault-tolerant logical pipe between switches with the traffic load evenly distributed between the ports in the group.

Architecture

A switch fabric, power supply, management module, and two I/O modules are standard on every 7-slot Switch 4007 chassis. Each switching system may be customized in order to meet network requirements.

Management Subsystem

The Switch 4007 is based on a distributed agent model, in which device-level components host individual 3Com SmartAgent® intelligent agents specifically optimized for each host device. These agents support SNMP Management Information Bases (MIBs), enabling the 3Com Switch 4007 to manage detailed information. The distributed agents also permit the switch to make independent control decisions.

Switch Fabric Design

Two switch fabrics are supported:

- The 18-Gbps switch fabric is suited for high-density wiring centers.
- The 48-Gbps switch fabric is suited for the data center and network backbone.

Multilayer Switch Modules

Switch 4007 MultiLayer Switch (MLS) modules offer switching with extreme CoS/QoS capabilities. These routing and switching functions apply for Ethernet, Fast Ethernet, and Gigabit Ethernet ports. Routing services are delivered by the modules through backplanes and through all front-panel ports simultaneously. MLS modules are available with either 12

10/100BASE-TX ports or 4 1000BASE-X ports with GBICs.

Services/Features

- IP, IPX, and AppleTalk routing.
- Media rate IP and IPX routing supported by Gigabit Ethernet and Fast Ethernet.
- IEEE 802.1p priorities.
- Traffic flow monitored by IGMP snooping and routing.

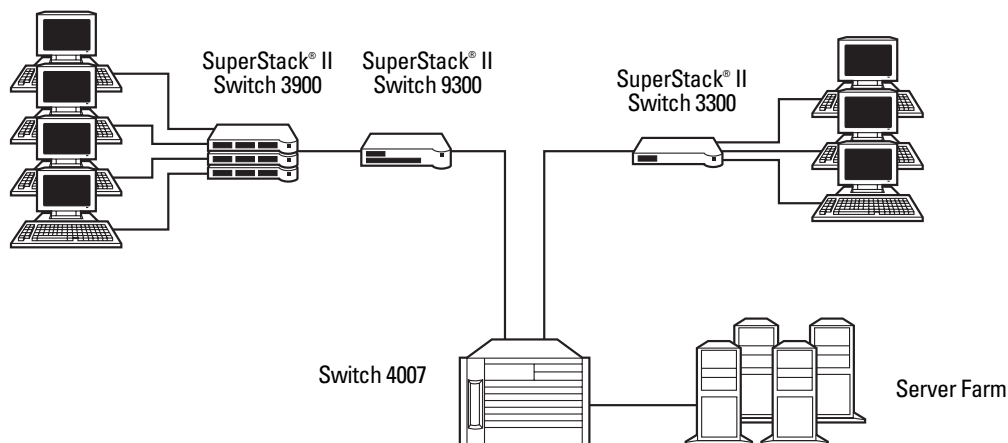
Layer 2 Modules

Both high-density Ethernet/Fast Ethernet switching and Gigabit Ethernet switching are supported by Layer 2 switching modules. SX and FX cabling are supported by Ethernet/Fast Ethernet modules. Similarly, both SX and LX configurations are supported by Gigabit modules.

Services/Features

- Full or half-duplex operation (Fast Ethernet only).
- IEEE 802.1D-compliant Layer 2 switching.
- Maximum of 127 VLANs.
- IGMP snooping.

For additional information on these or other modules, contact Technical Support.



Switch 4007 lets you access the network from anywhere.



Specifications

Duplex Support: Half or full

Connectors: 10/100TX: RJ-45; 100FX, 1000FX: SC

Indicators: Chassis: Power, fail, activity; Per Port: Link status, fail, activity

Power: 90–260 VAC (autoranging), 47–63 Hz, 15.5/7.8 A at 100/200 VDC

Size: 12.2"H x 19"W x 20.7"D (31 x 48.3 x 52.6 cm)

Weight: Base: 40 lb. (18.1 kg); With AC power supply: 85 lb. (38.6 kg)

What's included:

3C16810-US

- (1) Switch 4007 Chassis
- (1) Management Module
- (1) Power Supply
- (1) 48-Gbps Switch Fabric
- (2) 9-Port Gigabit Modules (3CB9LG9MC)

3C16811-US

- (1) Switch 4007 Chassis
- (1) management module
- (1) power supply
- (1) 48-Gbps Switch Fabric
- (1) 9-Port Gigabit Module [3CB9LG9MC]
- (1) 4-Port Gigabit Ethernet Multilayer Switch Module (3CB9RG4)

3C16815-US

- (1) Switch 4007 Chassis
- (1) Management Module
- (1) Power Supply
- (1) 18-Gbps Switch Fabric with (3) GBIC ports for Gigabit Uplinks
- (1) 12-Port 10BASE-T/100BASE-TX Multilayer Switch Module (3CB9RF12R)
- (1) 36-Port 10BASE-T/100BASE-TX Module (3CB9LF36R)

3C16816-US

- (1) Switch 4007 Chassis
- (1) Management Module
- (1) Power Supply
- (1) 18-Gbps Switch Fabric with (3) GBIC Ports for Gigabit Uplinks
- (1) 12-Port 10BASE-T/100BASE-TX Multilayer Switch Module (3CB9RF12R)
- (1) 20-Port 100BASE-FX Module (3CB9LF20MM)

Ordering Information

ITEM	CODE
3Com® Switch 4007 Preconfigured Starter Kits	
Layer 2 Gigabit Ethernet.....	3C16810-US
Layer 3 Gigabit Ethernet	3C16811-US
Layer 3 Fast Ethernet 100BASE-TX	3C16815-US
Layer 3 Fast Ethernet 100BASE-FX	3C16816-US

The switch chassis features six payload slots for I/O Modules. Two I/O modules are included with the starter kit. You may install any of these modules in the four remaining slots:

Multilayer I/O Modules (Layer 2 and Layer 3)	
4-Port Gigabit (with GBIC Port)	3CB9RG4
12-Port 10BASE-T/100BASE-TX	3CB9RF12R
Layer 2 I/O Modules	
4-Port Gigabit (with GBIC Port).....	3CB9LG4
9-Port 100BASE-SX	3CB9LG9MC
20-Port 100BASE-FX	3CB9LF20MM
36-Port 10BASE-T/100BASE-TX	3CB9LF36R

The 18-Gbps Switch Fabric and the 4-Port Gigabit Modules feature GBIC ports. You may use these ports to connect GBICs for Gigabit uplinks:

GBICs	
100BASE-SX	3CGBIC91
100BASE-LX	3CGBIC92
Long-Haul	3CGBIC97

