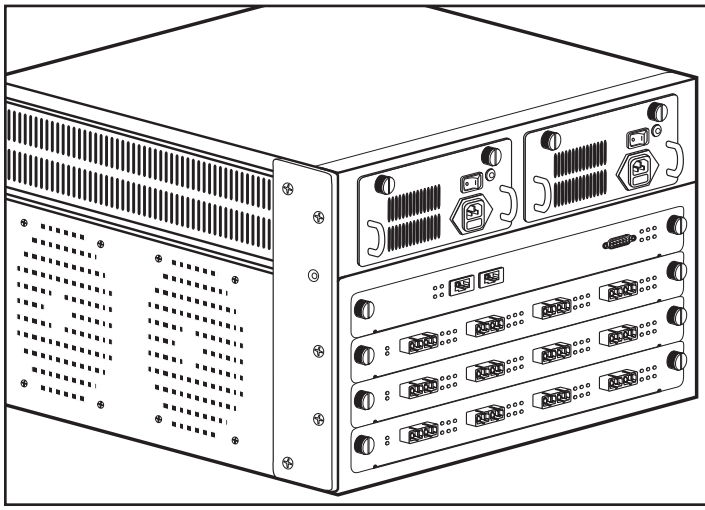
BLACK BOX®
NETWORK SERVICES

GIGABIT ETHERNET MODULAR SUPERSWITCH



A desktop switch for mission-critical applications.

Key Features

- ***Supports Ethernet, Fast Ethernet, Gigabit Ethernet, Direct IP™ Switching, VLAN, and RMON.***
- ***IEEE 802.3x compliant.***
- ***Flexible modular design.***
- ***Sustained filtering/ forwarding rate of 5.5 million packets per second.***
- ***Migration from a distributed Gigabit Ethernet backbone to switched Gigabit Ethernet backbones.***
- ***Full SNMP and RMON.***
- ***Windows® based and Web-based management with JAVA support.***
- ***IP-Multicast.***
- ***8-Gbps backplane.***

Create a central backbone switch for buildings and campus environments. With the Gigabit Ethernet Modular SuperSwitch, you get up to 12 switched Gigabit Ethernet ports.

The SuperSwitch supports either 1000BASE-LX or 1000BASE-SX. The 1000BASE-LX version supports either multimode or single-mode fibre at distances up to 100 km.

The SuperSwitch is flexible. You can change modules and active components in the SuperSwitch instead of replacing the entire unit.

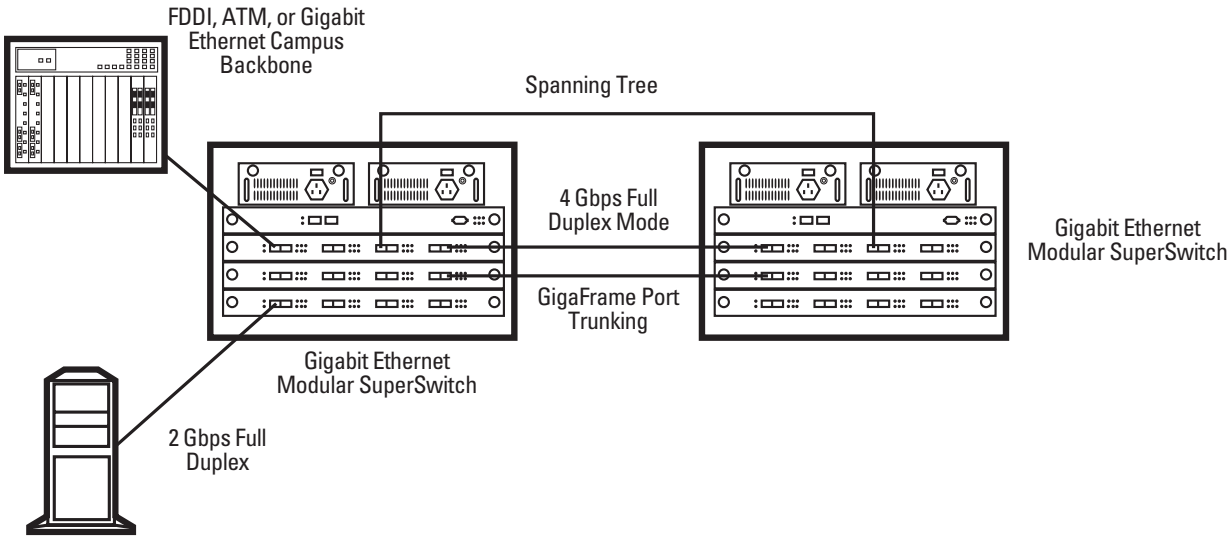
A control board in the upper slot of the SuperSwitch manages switching and routing. The RS-232 interface and the 10BASE-T port on the control board enable either in-band or out-of-band configuration and manage-ment. The control board maintains any combination of Gigabit Ethernet ports.

The switching architecture is based on a crossbar switch, which is similar to the 16-Gbps shared-memory concept, and supports 8 Gbps of bandwidth.

The control board filters and forwards up to 5.5 million packets per second—with no diminishing performance for broadcast and multicast frames during wire-speed transmission.

The SuperSwitch supports Layer 2 and Layer 3 VLAN capabilities. Layer-2-based VLANs support the destination and source address, port-based VLANs, and the IEEE 802.1q standard, which defines the tagging of frames. Layer 3 VLANs are based on the protocol header of the data packet.

To upgrade major switch components such as the self-test for the switching modules, the microcode, and the system controller agent, call Tech Support.



Specifications

Cable — 1000BASE-SX:
Multimode: 50 or 62.5/125 duplex fiber;
100BASE-LX: Multimode: 50 or 62.5/125 duplex fibre;
Single-Mode: 9/125 duplex fibre

Compatibility — IEEE 802.3u (Fast Ethernet), IEEE 802.1d (Bridge/Spinning tree), IEEE 802.1q (VLAN Tagging), IEEE 802.1p (Priority) MIB II, Bridge MID, Rmon (4 Groups), Direct IP

Distance —
1000BASE-SX: 300 m;
1000BASE-LX: Multimode: 550 m; Single-Mode: 2 km

Filter/Forward — 5.4 million packets per second

Number of Nodes — 8192 MAC addresses

Indicators — (8) LEDs: Xmt, Rx, Err, PC, Mgmt, Link, Module,Actv, Module Err;
Ethernet: (4) LEDs: RX, TX, Col., Link;
Management: (6) LEDs: Test Fault, Pwr, Act, PS1 OK, PS2 OK

Connectors —
Control Card: (1) DB9; Modules: (1) or (4) pairs SC

Power — 100–240 VAC, 50–60 Hz, autosensing

Size — 38.1H x 43.6W x 13.1D cm (1.5"H x 17.2"W x 5.1"D)

Ordering Information

ITEM	CODE
Gigabit Ethernet Modular SuperSwitch Chassis	40468
1-Port Modules	
1000BASE-SX (850 nm)	
Multimode	40481
1000BASE-LX (1300 nm)	
Multimode	40479
Single-Mode	40480
4-Port Modules	
1000BASE-SX (850 nm)	
Multimode	40478
1000BASE-LX (1300 nm)	
Multimode	40476
Single-Mode	40477