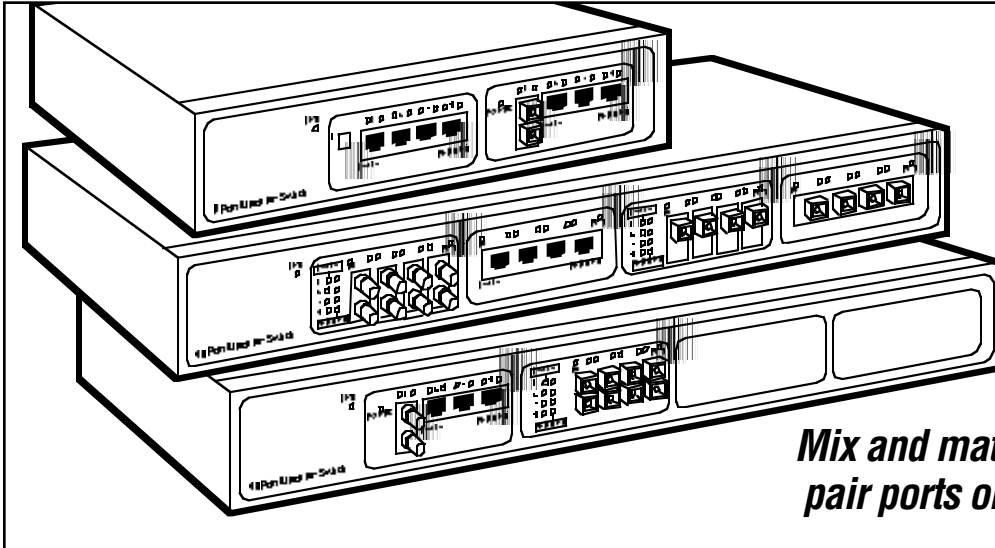


BLACK BOX[®]

NETWORK SERVICES

MODULAR FIBRE SWITCHES



Mix and match fibre and twisted-pair ports on your Ethernet LAN.

Key Features

- ▶ **100-Mbps switching services for large, high-performance LANs.**
- ▶ **Mixed-media configurations for maximum flexibility.**
- ▶ **Configurable with fiber ports, all connector types and speeds.**
- ▶ **Configurable with RJ-45 (copper) ports, 10/100 auto-negotiation.**
- ▶ **Full-duplex or half-duplex operation, auto-sensing.**

With the Modular Switch, you can configure any mix of fibre or RJ-45, 100-Mbps or 10-Mbps switched ports and connector types. The Switch provides the switching speed and the reliability to smoothly support multiple workgroups, each with its own switched 100 Mbps or 10 Mbps domain, for increased performance using any available fibre media type or twisted-pair cabling.

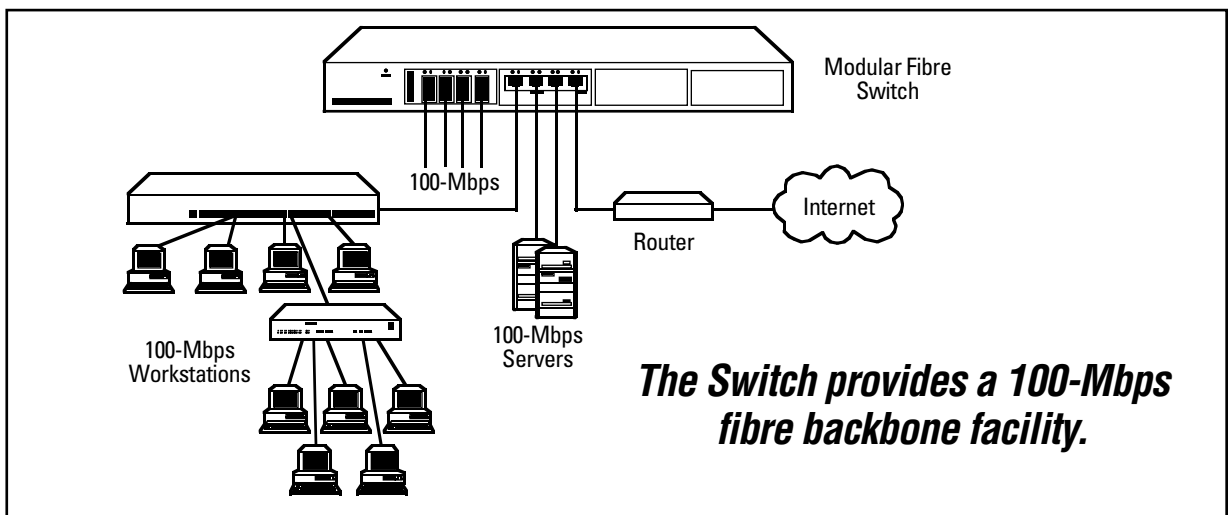
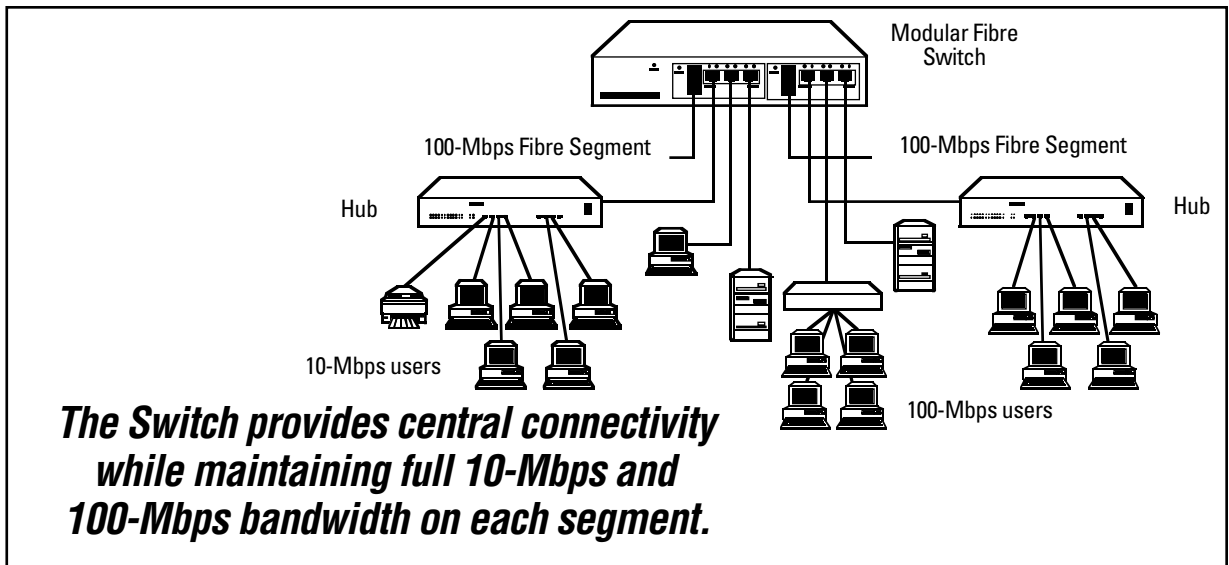
Choose from a variety of connectors. The twisted-pair ports are 10/100 auto-negotiating. Mixed-media combination modules are also supported by the Switch.

In a typical application, groups of standard dual-speed 10/100-Mbps hubs, or 100-Mbps hubs and switches, will form a series of

subnets for workgroups or multi-system power users. Each subnet is served by a separate switched port on the Modular Switch, and each of these subnets has full 100-Mbps or 10-Mbps bandwidth. Local traffic on one subnet, either 100 Mbps or 10 Mbps, is switch-isolated from the other subnets for high overall network performance.

For remote offices, campus environments, ISPs, or telecommunications facilities, select the 100-Mbps multimode SC fiber module (LE1421C-40K). It supports full-duplex transmissions up to 40 kilometers (24.8 miles). That's twice the distance of the other 100-Mbps fibre modules.

Easy to install and use, the Modular Switch is designed for organizations with multiple workgroups, remote offices, and network traffic centers. The Switch automatically learns and maintains addresses of attached nodes, so it adapts to network changes and expansions for plug-and-play operation. Front-mounted LEDs provide status information on each port.



Specifications

Address Table: 24K nodes with address aging

Cooling Method: Fan cooled, internal @ 9 cfm

Filtering and Forwarding Rate: 16-port aggregate; 2380K packets per second

Latency: 100 Mbps: 5 μ s + packet time; 10 Mbps: 15 μ s + packet time

Packet Buffers: 8 MB dynamic

Processing Type: Store and forward with IEEE 802.3x full-duplex flow control

Standards: IEEE 802.3: 10BASE-T, 10BASE-FL; IEEE 802.3u: 100BASE-TX, 100BASE-FX

Indicators: Chassis: Power, Per port: LK: ON when link is operational; ACT: ON with port activity; FDX/HDX: ON for full-duplex mode, OFF for half-duplex mode; 10/100: ON for 100 Mbps, OFF for 10 Mbps

Connectors:

LE1401A, LE1408A: (1) power, (2) slots for modules;
LE1416A: (1) power, (4) slots for modules;
LE1424C, LE1428C: (4) pairs of ST[®];
LE1419C, LE1421C, LE1421C-40K: (4) pairs of SC;
LE1422C: (4) MT-RJ;
LE1423C: (4) VF-45;
LE1425C: (4) RJ-45;
LE1427C: (3) RJ-45, (1) pair of ST;
LE1426C, LE1426C-SM: (3) RJ-45, (1) pair of SC

Power: Input: 110 to 240 VAC, 47 to 63 Hz, autosensing, internal; Consumption: LE1401A, LE1408A: 20 W, typical; LE1416A: 35 W, typical

Size: LE1401A: 4.4 x 22.9 x 22.9 cm; LE1408A, LE1416A: 4.4 x 43.2 x 22.9 cm

Weight: LE1401A: 1.1 kg; LE1408A, LE1416A: 1.8 kg

Ordering Information

ITEM

CODE

Modular Fibre Switch Chassis

8-Port.....LE1401A
8-Port Rackmount.....LE1408A
16-Port.....LE1416A

(The LE1408A and LE1416A include a 19" rackmount kit.)

Fibre Modules, 4-Port

10-Mbps

Multimode-ST.....LE1424C

100-Mbps

Multimode-ST.....LE1428C

Multimode-SC.....LE1419C

Multimode-MT-RJ.....LE1422C

Multimode-VF-45.....LE1423C

Single-Mode-SC.....LE1421C

100-Mbps for Transmissions up to 40 km

Single-Mode-SC.....LE1421C-40K

Twisted-Pair Module, 4-Port (One with Uplink)

10/100-Mbps RJ-45.....LE1425C

Mixed-Media Modules, 4-Port

(3) 10/100-Mbps RJ-45, (1) 100-Mbps Fiber

Multimode-ST.....LE1427C

Multimode-SC.....LE1426C

Single-Mode-SC.....LE1426C-SM

Remember to order cables...

Category 5 Patch Cable, 100-MHz, 4-Pair,

Straight-Pinned, PVC, Beige,

10-ft. (3-m).....EVMSL05-0010

Duplex Fibre Optic Cable, PVC, ST-ST,

Custom Lengths.....EFN062-CC

Duplex Fibre Optic Cable, PVC, SC-SC,

Custom Lengths.....EFN4025