



BLACK BOX[®]

NETWORK SERVICES

Dual Plug & Play Fiberoptic-Switches



Key Features

- ▶ 8K MAC address table , 256KBytes buffer memory
- ▶ Six RJ-45 (STP) ports for 10/100BASE-T/TX and two 100BASE-FX ports
- ▶ Redundant function for Fiber port
- ▶ Complies with IEEE802.3 and IEEE802.3u standards
- ▶ Supports N-Way protocol for 10BASE-T and/or 100BASE-TX connections
- ▶ Full/Half duplex mode operation
- ▶ One uplink Crossover port for switch to switch cascading
- ▶ Small size
- ▶ Store-and-forward switching mechanism
- ▶ Automatic filtering of fragmented and CRC errored packets
- ▶ Extensive LED indicators for network diagnostics
- ▶ External power adapter

This device is a powerful, high-performance Ethernet/Fast Ethernet Switch with two fiber uplink ports. Twisted pair ports are capable of 10 or 100Mbps auto-negotiation operation (N-Way). 100Mbps according to the 100BASE-FX standard are supported on the fiber interface. The LBS208AE-2FX is an ideal solution for micro-segmenting large networks into smaller sub-nets for overall improved performance, so enabling the most demanding bandwidth multimedia and imaging applications. Moreover, the 10/100Mbps autosensing capability provides an easy way in which to move from a 10Mbps to a 100Mbps network.

Compared with shared 10Mbps or 100Mbps networks, this N-Way switch delivers a dedicated 10/100Mbps connection to every attached client unit with no bandwidth congestion problems. Store-and-forward switching modes guarantee low latency and fast data transmission. Full-duplex mode allows the simultaneous transmission and reception

of frames without the risk of collisions as well as a doubling of the network bandwidth.

Specifications

Standards —

IEEE802.3 and IEEE802.3u standards

Interface —

Six 10/100Mbps RJ-45 (STP) N-Way ports; Two 100Mbps FX (SC or ST) ports.

Protocol Support —

Speed: 10Mbps (10BASE-T) and 100Mbps; 100BASE-TX/100BASE-FX)
Operation mode: Full and half duplex

Filtering/Forwarding Rate —

10Mbps: 14,880pps/14,880pps
100Mbps: 148,800pps/148,800pps

Buffer Memory — Totally 256KByte

Uplink Port —

One crossover uplink port (alternative to port No.1 supports Switch or Hub connections

LED indication —

System: PWR, PRI FX, SEC FX
Port: LNK/ACT, FDX/COL, 100M

Fiber port redundancy —

One redundant Fiber group

Fiber port specification —

Supports SC or ST for multimode and SC for single mode applications

Power — External power adapter

(Input:100-240V, 0.5A,50-60Hz
Output: 12-24V DC 2A)

Operating Temperature —

0° - +60° C

Humidity — 10-90% non condensing

Safety Standards —

FCC Part 15 Class A, CE

Dimension —

185 x 111 x 32 mm (WxDxH)

Weight —

300g (Net Weight)

Fiber Optic Details

LBS208AE-2FXSC/ST

Connector Type — SC/ST

Fiber Type — Multimode

Wave Length — 1310nm

Typical distance — 2 km

Min TX PWR — -19.0 dBm

Max TX PWR — -14.0 dBm

Sensitivity — -30.0 dBm

Link Budget — 11.0 dB

LBS208AE-2FXSCSM25

Connector Type — SC

Fiber Type — Singlemode

Wave Length — 1310nm

Typical distance — 25 km

Min TX PWR — -15.0 dBm

Max TX PWR — -7.0 dBm

Sensitivity — -34.0 dBm

Link Budget — 19.0 dB

Ordering information

ITEM

CODE

100BASE-FX, MM 2 km, SC	LBS208AE-2FXSC
100BASE-FX, MM 2 km, ST	LBS208AE-2FXST
100BASE-FX, SM 25 km, SC	LBS208AE-2FXSCSM25

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