

Managed Layer 2 Ethernet Switch



Key Features

- ▶ All the 10/100 Mbps TX ports support Half-Duplex and Full-Duplex modes, Auto-Negotiation and automatic polarity detection.
- ▶ The optional 100Mbps fiber ports are shared with ports 12 and 24 of 10/100Mbps TX ports respectively.
- ▶ A RS-232 Console port for easy configuration setting
- ▶ Provides Flow-Control mechanism to ensure zero packet loss. Uses Back-Pressure for Half-Duplex operation, and IEEE802.3x for Full-Duplex operation.
- ▶ Provides Store-and-Forward forwarding scheme.
- ▶ Provides Aging Time setting.
- ▶ Provides Port Mirror function.
- ▶ Provides Port communication mode configuration.
- ▶ Supports 256 Port-Based VLAN groups as in IEEE 802.1Q. Each VLAN can have an ID with range 1 to 4094.
- ▶ Provides Link Aggregation function. The configurations are flexible. Consecutive combinations of 2, 4 or 8 ports can be bundled into Link Aggregation sets.
- ▶ Supports GVRP protocol for VLAN configuration.
- ▶ Provides multicast filtering function.
- ▶ Provides GMRP for configuration of multicast groups.



Black Box present its latest backbone Gigabit Management Switch series, the LBS1226AE, providing VLAN, Trunking, Port Mirror, SNMP, RMON and Web management features, the only switches you need for a perfect backbone connection.

Specifications

Standards —

- IEEE 802.3: 10BASE-T
- IEEE 802.3u: 100BASE-TX
- IEEE802.3ab: 1000BASE-T
- IEEE 802.3x: Flow-Control for Full-Duplex operation

Ports —

- 24 ports 10/100Mbps TX
- 1 or 2 port(s) 100Mbps FX (Optional)
- 1 or 2 port(s) Giga Module (Optional)

Media Support —

- 10BASE-T: Category 3, 4 or 5 TP
- 100BASE-TX/1000BASE-T: Category 5 TP

Bandwidth —

- 10BASE-T: 20/10Mbps
- 100BASE-TX: 200/100Mbps
- 1000BASE-T: 2000Mbps

Forwarding/Filtering Rate —

- 1488000 packets/second per port @ 1000Mbps, maximum
- 148800 packets/second per port @ 100Mbps, maximum
- 14880 packets/second per port @ 10Mbps, maximum

Latency —

- 11 µsec @100Mbps, minimum
- 75 µsec @ 10Mbps, minimum

MAC Addresses —

32K entries maximum, Self-Learning

Buffer Memory — 1 M byte

Configuration Interface — Console RS-232 DCE 19200bps (default)

Duplex Modes —

- TP ports provide 100/10Mbps

Full/Half-Duplex Auto-Negotiation function

- Fiber ports set to Half or Forced Full-Duplex mode via console port

LED Indicators — One (1) for PWR

- For port 1 to 24:
 - One (1) per port for FDX / COL
 - One (1) per port for LINK / ACT (100M or 10M)
- For port 25,26 (Gigabit Module):
 - One (1) per port for RXACT
 - One (1) per port for TXACT
 - One (1) per port for LINK

Power Supply —

- Internal full range Auto-Switching
- Input voltage: 100 ~ 240 +/-10%V AC/ 50 ~ 60 Hz

Power Consumption —

52.9 watt maximum

Environment —

Operating Temperature: 0 ~ 45°C

Storage Temperature: -20 ~ 70°C

Humidity: 10% ~ 90% non-condensing

Dimensions — 442 x 255 x 44 mm

Ordering information

ITEM

CODE

10/100Mbps TX Layer 2 Management Switch, 24-PortsLBS1226AE

Optional Moduleson request

2-ports, 1000BASE-SX, Fiber Module

2-ports, 1000BASE-LX, Fiber Module

2-ports, 1000BASE-TX, Copper Module

1-port, 1000BASE-TX, Copper and 1-port, 1000BASE-SX, Fiber

1-port, 1000BASE-TX, Copper and 1-port, 1000BASE-LX, Fiber

1-port, 1000BASE-SX, Fiber Module

1-port, 1000BASE-LX, Fiber Module

1-port 1000BASE-TX, Copper Module

1-port 100BASE-FX, Single Mode Fiber Module

1-port 100BASE-FX, Multi Mode Fiber Module

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