BLACK BOX®
NETWORK SERVICES

Layer 2 Copper/FO-Switch with Mgmt

Key Features

▶ 1 x 100Base-FX SC port

▶ 3 x 10/100Base-TX RJ-45 port

▶ Comply to IEEE802.3/3u 10/100Base-TX & 100Base-FX

▶ Store & forward switching mechanism

▶ RJ-45 support auto-negotiation and MDI-MDIX auto-crossover

▶ IEEE 802.3x compliant Flow control

▶ Port based VLAN and IEEE 802.1Q Tagging VLAN supported

▶ Port based Priority and 802.1P Priority supported

▶ Support Broadcast storm control function

▶ Port Rate control and Port mirror supported

▶ Support SNMP, Console port, Telnet management function

▶ Support TFTP/FTP firmware upgrade

▶ Plug-and-Play installation

▶ LED indication: Power, Status, Link/Act, FDX/COL, 100M

The LBS304AE contain 1 100M Fiber port plus 3 10/100M UTP ports. This managed converter allow user to extend or interconnect their copper based Fast Ethernet network to a maximum distance up to 20KM.

The LBS304AE adapts the switching technology and function just like a managed switch instead of a traditional converter. The LBS304AE provide wire-speed, store and forward switching and other advanced features, such as Flow control, Port based or 802.1Q Tagging VLAN, rate control, etc.

The LBS304AE is easy to install and maintain. Operation status may be view by a set of clear, per-port LED or through the built-in management module locally via console or remotely via SNMP, Telnet management. LBS304AE also support TFTP/FTP firmware upgrade.

Specifications

Standards — IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX & 100BASE-FX

Interface — 1 x 100BASE-FY SC port; 3 x 10/100BASE-TX RJ-45 port

Connector Type — IEE

Power — External Power adaptor
Input: 100-240VAC, 50-60Hz
Output: 12VDC

Diagnostic LEDs — Power, Status, Link/Act, FOX/COL, 100M

Dimensions —
WxDxH 220 x 146 x 34 mm

Temperature —
Operating: 0 - 50°C
Storage: -20 - 60°C

Humidity — 5 - 95% non condensing

Emission — Electrical: UL, CUL
EMI: FCC Class A, CE

Optic Fiber Details

Connector Type — SC
Fiber Type — Multimode
Wave Lengh — 1310nm
Typical Distance — 2km
Min TX Power — -19.0 dBm
Max TX Power — -14.0 dBm
RX Sensitivity — -30.0 dBm
Link Budget — 11.0 dB

▼ *Ordering information*

ITEM	CODE
10BASE-T/100BASE-FX and 100BSAE-FX, MM, SC	LBS304AE
10BASE-T/100BASE-FX and 100BSAE-FX, SM, SC	LBS304AE-SM

Single FO-Switch (WDM)

Key Features

- 1 x 100Base-FX Simplex SC port, TX: 1550nm RX: 1310nm
- 3 x 10/100Base-TX RJ-45 port
- Comply to IEEE802.3/3u 10/100Base-TX & 100Base-FX
- Store & forward switching mechanism
- RJ-45 support auto-negotiation and MDI-MDIX auto-crossover
- IEEE 802.3x compliant Flow control
- Port based VLAN and IEEE 802.1Q Tagging VLAN supported
- Port based Priority and 802.1P Priority supported
- Support Broadcast storm control function
- Port Rate control and Port mirror supported
- Support SNMP, Console port, Telnet management function
- Support TFTP/FTP firmware upgrade
- Plug-and-Play installation
- LED indication: Power, Status, Link/Act, FDX/COL, 100M

The LBS304AE-WA/WB contain 1 100M Fiber port plus 3 10/100M UTP ports. This managed converter adapts the WDM technology and able to provide Bi-Direction communicaiton up to 20km via single fiber.

The LBS304AE-WA/WB adapts the switching technology and function just like a managed switch instead of a traditional converter. The LBS304AE-WA/WB provide wire-speed, store and forward switching and other advanced features, such as Flow control, Port based or 802.1Q Tagging VLAN, rate control, etc.

The LBS304AE-WA/WB is easy to install and maintain. Operation status may be view by a set of clear, per-port LED or through the built-in management module locally via console or remotely via SNMP, Telnet management. LBS304AE-WA/WB also support TFTP/FTP firmware upgrade.

Specifications

Standards —
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX & 100BASE-FX

Interface — 1 x 100BASE-FX Simplex SC port; 3 x 10/100BASE-TX RJ-45 port

Connector Type — IEE

Power — External Power Adaper
Input: 100-240VAC, 50-60Hz
Output: 12VDC

Diagnostic LEDs — Power, Status, Link/Act, FOX/COL, 100M

Dimensions —
WxDxH 220 x 146 x 34 mm

Temperature —
Operating: 0 - 50°C
Storage: -20 - 60°C

Humidity — 5 - 95% non condensing

Emission — Electrical: UL, CUL
EMI: FCC Class A, CE

Optic Fiber Details

LBS304AE-WA
Connector Type — SC
Fiber Type — Singlemode
Wave Lengh — TX 1310nm; RX 1550 nm
Typical Distance — 20 km
Min TX Power — -14.0 dBm
Max TX Power — -8.0 dBm
RX Sensitivity — -33.0 dBm
Link Budget — 19.0 dB
Connector Type — SC

LBS304AE-WB
Fiber Type — Singlemode
Wave Lengh — TX 1550nm; RX 1310 nm
Typical Distance — 20 km
Min TX Power — -14.0 dBm
Max TX Power — -8.0 dBm
RX Sensitivity — -33.0 dBm
Link Budget — 19.0 dB

Ordering information

ITEM	CODE
10/100BASE-TX, RJ45, 100BASE-FX, 1 Fiber SM, 20 km, SC, tx1310 nm	LBS304AE-WA
SM, 20 km, SC, tx 1550 nm	LBS304AE-WB

Black Box Network Services - The world's largest network services company

We are, with 25 years of experience, the world leader in network infrastructure services.

On the Phone — no charge, answer calls in less than 20 secounds, find the right product with our technical experts.

On-site — superior design and engineering, Certified installations, end-to-end service.

On-line — receive technical knowledge on-line, including technology overviews, Black Box Explains and the Knowledge Box.

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The world's best customer service — Custom design services and products, the best warranties, money-saving discount programs.

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