

EX1605B/BF EX1608B/BF Series



- 5-port 10/100Base-TX**
- 4-port 10/100Base-TX + 1-port 100Base-FX**
- 8-port 10/100Base-TX**
- 7-port 10/100Base-TX + 1-port 100Base-FX**

Overview

EX1605B/1608B are compact Fast Ethernet switches equipped with 5 or 8 ports for 10/100Base-TX. EX1605BF1/1608BF1 are also compact Fast Ethernet switches equipped with 4 or 7 ports for 10/100Base-TX and 1 port for 100Base-FX. These are the internal power version of the EX1605PB/PBF1 and 1608PB/PBF1.

By using standard auto-negotiation and the inclusion of Auto-MDIX, EtherWAN provides a cost-effective way of integrating legacy 10Mbps networks with 100Mbps Fast Ethernet networks. The TX ports auto-negotiate for 10/100Mbps speed and auto detect full or half duplex mode. The fiber port on EX1605BF1 and 1608BF1 accommodates SC, ST, MT-RJ, VF-45, or LC; with a fiber connection between two nodes that can reach up to 120Km (74.4miles).

The bridging function of the switch provides a solution for extending the distance between two 100Mbps network segments. The non-blocking switching architecture meets a great demand in multimedia and imaging applications. A combination of FX and TX ports in a compact sized box makes EX1605BF1 and 1608BF1 a simple solution for complicated networking needs.

Key Features

- ▶ EX1605B/1608B: 5 or 8 ports for 10/100Base-TX
- ▶ EX1605BF1/1608BF1: 4 or 7 ports for 10/100Base-TX + 1 port for 100Base-FX
- ▶ Choices of SC, ST, MT-RJ, VF-45, or LC connectors for FX ports
- ▶ TX ports auto-negotiate for speed and duplex modes
- ▶ Features Auto-MDIX on all TX ports
- ▶ Supports 2K MAC addresses
- ▶ Supports 1M bits buffer memory
- ▶ Store-and-forward mechanism
- ▶ Full wire-speed forwarding rate and true Non-Blocking Architecture
- ▶ Broadcast Storm filter function
- ▶ Back pressure and IEEE 802.3x compliant Flow Control
- ▶ Front panel power & port status LEDs
- ▶ Wall-mountable compact size

Ordering Information

EX1605B	5-port 10/100Base-TX
EX1605BFT	4-port 10/100Base-TX + 1-port 100Base-FX (ST, Multi-Mode, 2Km)
EX1605BFC	4-port 10/100Base-TX + 1-port 100Base-FX (SC, Multi-Mode, 2Km)
EX1605BFL	4-port 10/100Base-TX + 1-port 100Base-FX (LC, Multi-Mode, 2Km)
EX1605BFT-20	4-port 10/100Base-TX + 1-port 100Base-FX (ST, Single-Mode, 20Km)
EX1605BFC-15	4-port 10/100Base-TX + 1-port 100Base-FX (SC, Single-Mode, 15Km)
EX1605BFC-40	4-port 10/100Base-TX + 1-port 100Base-FX (SC, Single-Mode, 40Km)
EX1605BFC-75	4-port 10/100Base-TX + 1-port 100Base-FX (SC, Single-Mode, 75Km)
EX1605BFCA-20	4-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1310nm / RX: 1550nm Single-Mode, 20Km)
EX1605BFCA-40	4-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1310nm / RX: 1550nm Single-Mode, 40Km)
EX1605BFCA-20	4-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1550nm / RX: 1310nm Single-Mode, 20Km)
EX1605BFCA-40	4-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1550nm / RX: 1310nm Single-Mode, 40Km)
EX1608B	8-port 10/100Base-TX
EX1608BFT	7-port 10/100Base-TX + 1-port 100Base-FX (ST, Multi-Mode, 2Km)
EX1608BFC	7-port 10/100Base-TX + 1-port 100Base-FX (SC, Multi-Mode, 2Km)
EX1608BFL	7-port 10/100Base-TX + 1-port 100Base-FX (LC, Multi-Mode, 2Km)
EX1608BFT-20	7-port 10/100Base-TX + 1-port 100Base-FX (ST, Single-Mode, 20Km)

Non-Hardened Unmanaged Switches

Ethernet
Switches

1

Serial
Servers

2

Media
Converters

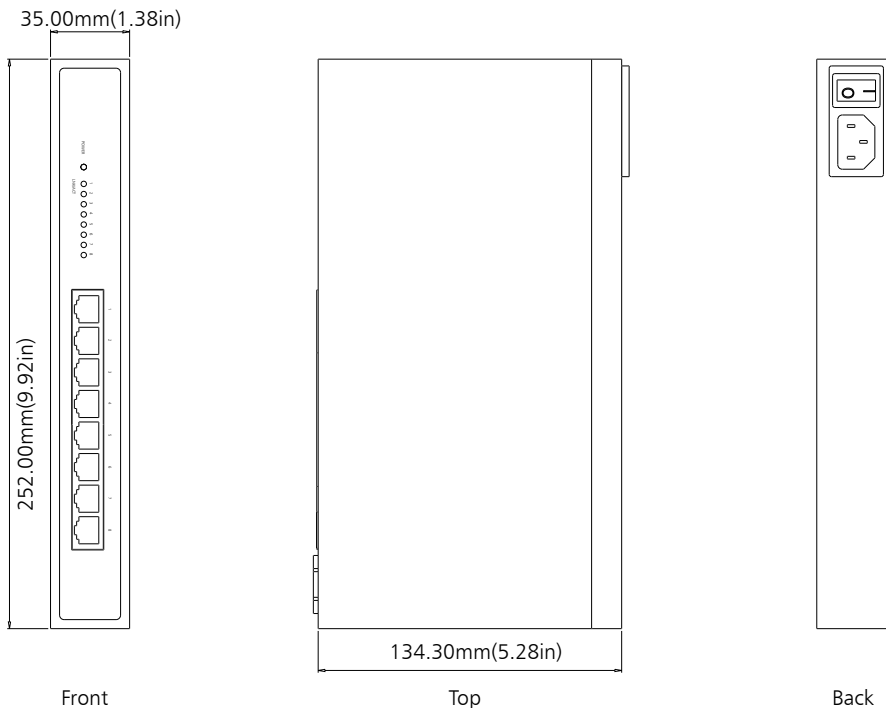
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Others

4

EX1608BFC-15	7-port 10/100Base-TX + 1-port 100Base-FX (SC, Single-Mode, 15Km)
EX1608BFC-40	7-port 10/100Base-TX + 1-port 100Base-FX (SC, Single-Mode, 40Km)
EX1608BFC-75	7-port 10/100Base-TX + 1-port 100Base-FX (SC, Single-Mode, 75Km)
EX1608BFCA-20	7-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1310nm / RX: 1550nm Single-Mode, 20Km)
EX1608BFCA-40	7-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1310nm / RX: 1550nm Single-Mode, 40Km)
EX1608BFCB-20	7-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1550nm / RX: 1310nm Single-Mode, 20Km)
EX1608BFCB-40	7-port 10/100Base-TX + 1-port 100Base-FX (SC, TX: 1550nm / RX: 1310nm Single-Mode, 40Km)

Diagrams



Technical & Physical Specifications

LED:

- Per Unit PWR (1 LED)
- Per Port LNK/ACT (1 LED)

Ethernet Standards:

IEEE 802.3: 10Base-T, IEEE 802.3u 100Base-TX and 100Base-FX

Cable:

- 10Base-T: 2-pair UTP Cat. 3, 4, 5, up to 100m (328ft.)
- 100Base-TX: 2-pair UTP Cat. 5, up to 100m (328ft.)
- 100Base-FX: 50 or 62.5/125 m Multi-Mode fiber optic cable
9 or 10/125 m Single-Mode fiber optic cable

Switching Method:

- Store-and-Forward

Forwarding Rate:

- 14,880pps for 10Mbps; 148,800pps for 100Mbps

AC Input:

- 100 to 240VAC, 50 to 60Hz, 3.3VDC, 2.5A Internal Universal Power Supply

Power Dissipation:

- 3.22W Max.

Operating Temperature:

- 0°C to 45°C (32°F to 113°F)

Storage Temperature:

- -10°C to 70°C (14°F to 158°F)

Humidity:

- 10% to 90% Non-Condensing

Dimensions:

- 252.0mm (W) x 134.3mm (D) x 35.0mm (H)
(9.92" (W) x 5.29" (D) x 1.38" (H)), Compact Size

Weight:

- 1.6Kg (3.52lbs.)

Emissions Compliance:

- CE, FCC

Designation	Typical Distance*	Nominal Wavelength	Cable Type	Connector	Optical Budget
100Base-FX	2 km	1310 nm	62.5/125 MM	ST	12 dB
100Base-FX	2 km	1310 nm	62.5/125 MM	SC	12 dB
100Base-FX	20 km	1310 nm	10/125 SM	SC	17 dB