

EX1605PB/PBF1 EX1608PB/PBF1 Series

5/8-port 10/100Base Fast Ethernet Switches



Overview

EX1605PB and EX1608PB are pocket sized Fast Ethernet switches equipped with 5 or 8 ports for 10/100Base-TX. EX1605PBF1 and EX1608PBF1 are pocket sized Fast Ethernet switches equipped with 4 or 7 ports for 10/100Base-TX and 1 port for 100Base-FX. Their pocket size is ideal for users who prefer wall-mounting or desktop switches. 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 ports on EX1605PBF1 and EX1608PBF1 accommodate 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 satisfies a great demand in multimedia and

imaging applications. A combination of FX and TX ports in a pocket sized box makes EX1605PBF1 and EX1608PBF1 a simple solution for complicated networking needs.

Features

- ▶ 2048 MAC addresses
- ▶ 1M bits buffer memory
- ▶ 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- ▶ Full wire-speed forwarding rate
- ▶ 0.6A 12VDC External Universal PSU
- ▶ 0°C to 45°C (32°F to 113°F) operating temperature range
- ▶ Metal case
- ▶ Supports Wall installation

Specifications

Technology

Standards:

- IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/100Base-FX, IEEE802.3x

Forward and Filtering Rate:

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory:

- 1M bits

Processing Type:

- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Address Table Size:

- 2048 MAC addresses

Latency:

- EX1605PB, EX1605PBF1: Less than 5 μ s
- EX1608PB, EX1608PBF1: Less than 7.5 μ s

Power

Input:

- Input Voltage: 12VDC
- Input Current: 0.6A

Power Consumption:

- 3.22W Max.

Mechanical

Casing:

- Metal case

Dimensions:

- 160mm (W) x 80.5mm (D) x 28mm (H)
(6.3" (W) x 3.17" (D) x 1.1" (H))

Weight:

- 0.42Kg (0.92lb.)

Installation:

- Wall Mounting

Environment

Operating Temperature:

- 0°C to 45°C (32°F to 113°F)

Storage Temperature:

- -10°C to 70°C (14°F to 158°F)

Ambient Relative Humidity:

- 10% to 90% (non-condensing)

Interface

LED Indicators:

- Per Unit: Power Status (Power)
- Per Port: 10/100TX, 100FX: Link/Activity

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	11 dB
100Base-FX	20 Km	TX: 1310 nm RX: 1550 nm	10/125 SM	SC	15 dB
100Base-FX	40 Km	TX: 1310 nm RX: 1550 nm	10/125 SM	SC	21 dB
100Base-FX	20 Km	TX: 1550 nm RX: 1310 nm	10/125 SM	SC	15 dB
100Base-FX	40 Km	TX: 1550 nm RX: 1310 nm	10/125 SM	SC	21 dB

Non-Hardened Unmanaged Switches

Regulatory Approvals:

ISO:

- Manufactured in an ISO9001 facility

Emission Compliance:

- CE Mark Class A, FCC Part 15 Class A

Ethernet
Switches

1

Serial
Servers

2

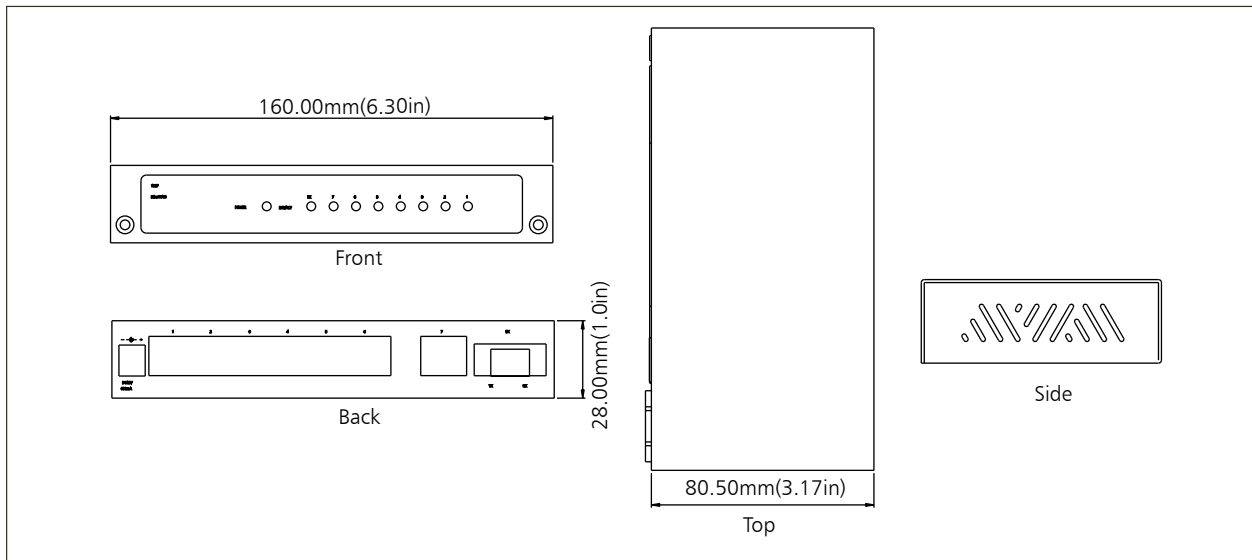
Media
Converters

3

Others

4

Diagrams



Ordering Information

EX1605PB	5-port 10/100Base-TX
EX1605PBFT	4-port 10/100Base-TX + 1-port 100Base-FX Multi Mode (ST) -2Km
EX1605PBFC	4-port 10/100Base-TX + 1-port 100Base-FX Multi Mode (SC) -2Km
EX1605PBFT-20	4-port 10/100Base-TX + 1-port 100Base-FX Single Mode (ST) -20Km
EX1605PBFC-15	4-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) -15Km
EX1605PBFC-40	4-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) -40Km
EX1605PBFCA-20	4-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) WDM -TX:1310nm/RX:1550nm -20Km
EX1605PBFCB-20	4-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) WDM -TX:1550nm/RX:1310nm -20Km
EX1605PBFCA-40	4-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) WDM -TX:1310nm/RX:1550nm -40Km
EX1605PBFCB-40	4-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) WDM -TX:1550nm/RX:1310nm -40Km
EX1608PB	8-port 10/100Base-TX
EX1608PBFT	7-port 10/100Base-TX + 1-port 100Base-FX Multi Mode (ST) -2Km
EX1608PBFC	7-port 10/100Base-TX + 1-port 100Base-FX Multi Mode (SC) -2Km
EX1608PBFT-20	7-port 10/100Base-TX + 1-port 100Base-FX Single Mode (ST) -20Km
EX1608PBFC-15	7-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) -15Km
EX1608PBFC-40	7-port 10/100Base-TX + 1-port 100Base-FX Single Mode (SC) -40Km
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