Overview

The EX1605PBF1 is positioned as a multi-port Fast Ethernet Media Converter to meet fibre networking applications. As a derivative of the EX1605PB1 Fast Ethernet Switch series, the EX1605PBF1 is a pocket sized Fast Ethernet Media Converter equipped with 4-port 10/100BASE-TX and 1-port 100BASE-FX. Its pocket size is ideal for users who prefer wall mounted or desktop Media Converters. 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 fibre ports on EX1605PBF1 accommodate SC, ST, MT-RJ, VF-45, or LC; with a fibre connection between two nodes that can reach up to 120Km (74.4miles). The bridging function of the Media Converter provides a solution for extending the distance between two 100Mbps network segments. The non-blocking switching architecture satisfies the bandwidth demand by multimedia and imaging applications. A combination of FX and TX ports by a pocket sized box makes the EX1605PBF1 a simple solution for complicated networking needs.
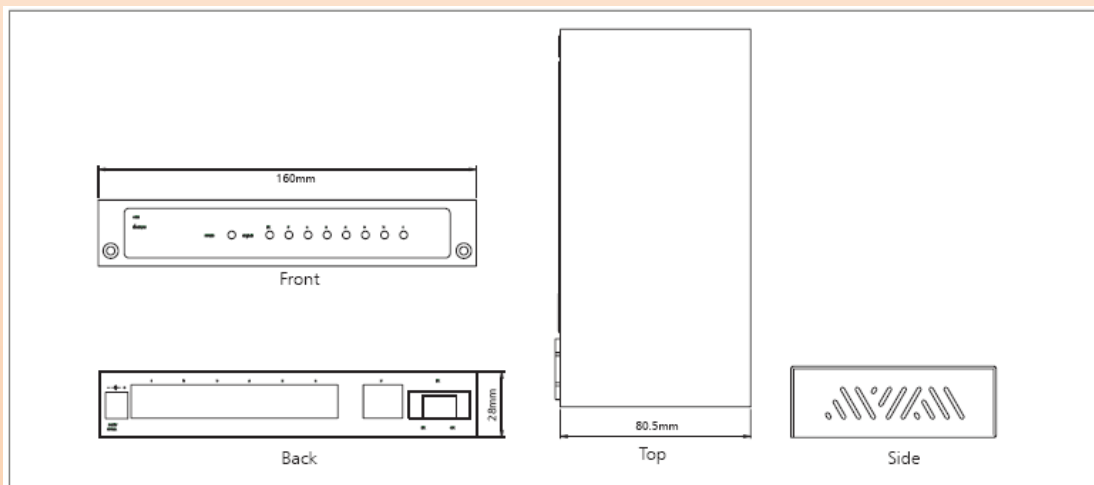
Features

- 2048 MAC addresses
- 1M bits buffer memory
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation,
- Auto-MDI/MDIX
- Full wire-speed forwarding rate

- 12VDC External Universal PSU
- 0°C to 45°C (32°F to 113°F) operating temperature range
- Metal case
- Supports Wall or Shelf installation

Ordering Information

EX1605PBFT	4-port 10/100BASE-TX + 1-port 100BASE-FX Multi Mode (ST) -2Km Media Converter
EX1605PBFC	4-port 10/100BASE-TX + 1-port 100BASE-FX Multi Mode (SC) -2Km Media Converter
EX1605PBFT-20	4-port 10/100BASE-TX + 1-port 100BASE-FX Single Mode (ST) -20Km Media Converter
EX1605PBFC-15	4-port 10/100BASE-TX + 1-port 100BASE-FX Single Mode (SC) -15Km Media Converter
EX1605PBFC-40	4-port 10/100BASE-TX + 1-port 100BASE-FX Single Mode (SC) -40Km Media Converter
EX1605PBFCA-20	4-port 10/100BASE-TX + 1-port 100BASE-BX Single Mode (SC) WDM -TX:1310nm/RX:1550nm -20Km Media Converter
EX1605PBFCB-20	4-port 10/100BASE-TX + 1-port 100BASE-BX Single Mode (SC) WDM -TX:1550nm/RX:1310nm -20Km Media Converter
EX1605PBFCA-40	4-port 10/100BASE-TX + 1-port 100BASE-BX Single Mode (SC) WDM -TX:1310nm/RX:1550nm -40Km Media Converter
EX1605PBFCB-40	4-port 10/100BASE-TX + 1-port 100BASE-BX Single Mode (SC) WDM -TX:1550nm/RX:1310nm -40Km Media Converter

Diagrams

160mm

Front

28mm

Back

80.5mm

Top

Side

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:
- Less than 5µs

Power

Input:
- Input Voltage:12VDC

Power Consumption:
- 3.24W Max. 0.27A@12VDC

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 (0.92lbs.)

Installation:
- Wall, Shelf Mounting

LEDs

The array of LED indicators on the front panel conveys status and configuration information to help you monitor and troubleshoot the switch.

Interface

Ethernet Port:
- 10/100BASE-TX: 4 ports
- 100BASE-FX: 1 port

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

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:
- 5% to 95% (non-condensing)

Regulatory Approvals:

ISO:
- Manufactured in an ISO9001 facility

Emission Compliance:
- CE Mark Class A, FCC Part 15 Class A

EtherWAN's Media Converters in Renewable Energy