

EC3802-WDM

Fast Ethernet Metro Access CPE



Product Overview

The Edge-Core EC3802-WDM is a Fast Ethernet fiber premises equipment with 1 10/100 RJ-45 port and 1 100Base-BX WDM port. The optical fiber port can support lengths of up to 15km and 802.3ah OAM feature. EC3802-WDM is ideal for Fiber to the building (FTTB) or Fiber to the home (FTTH) deployments.

Key Features and Benefits

Performance and Scalability

EC3802-WDM provides the wire-speed performance which can suit for home users for triple play and for business customers for higher speed data transmission. The maximum long distance up to 15km can have completed subscribers coverage.

Easy Deployment

EC3802-WDM is a plug-and-play customer premise equipment for easy installation and use. Service provider doesn't need to configure it and the MDI/MDI-X auto detection in RJ-45 port also help to reduce installation effort.

The VLAN packet pass through feature can suit service provider for triple play services. The maximum frame size 1535 bytes also put business customer for special applications.

Advanced Management

EC3802-WDM's IEEE 802.3ah OAM standard has been developed to bring the Operations, Administration and Maintenance (OAM) mechanisms used in traditional carrier networks to effectively maintain and troubleshoot broadband Ethernet networks. EC3802-WDM's 802.3ah can support basic and advanced part. In basic part, device can work with other vendors' CO switches with Discovery, Remote Failure Indication, Link Monitor and Remote Loopback. In advanced part, EC3802-WDM has proprietary behaviors including Reset Remote Devices and Remote Firmware Upgrade. These function can work with Edge-Core's fiber switch ES3528-WDM and ES3528M-SFP.

FTTH Home user thinking design

EC3802-WDM with fiber protection housing designed can avoid end user to break the fiber cable and fiber transceiver. The Laser diode in the housing also can prevent customer to look it straightly.

IEEE 802.3af PoE in LAN Ethernet port can deploy the FTTH solution more easily. It can put EC3802-WDM in every where without power outlet limitation.

The compact size and wall mount designed can put on the desktop or wall without causing any life inconveniently.

ES3802-WDM Product Specifications

Features

Physical Specifications

1 100Base-BX single fiber port (for connection to Central Office)
1 10/100Base-TX RJ-45 port (for connection on subscriber site)
1 4-pin piano switch regulating: full/half duplex mode
Auto MDI/MDI-X on RJ-45 ports

L2 Features

Maximum Ethernet frame size: 1535 bytes
Denying/Allowing Forwarding MAC addresses
MAC address table size: 2K with 4 layer hashing table for automatic MAC address learning
Auto-negotiation for port speed and duplex mode
802.3x Flow Control: Back-Pressure for half-duplex mode and Pause frame for full-duplex mode

Optical Features

Wavelength: Transmit-1310nm, Receive-1550nm
Cable: 9/125um Single Mode Fiber (ITU-T G.652)
Connector: Single SC Connector
Transmitting Power Range: -8 ~ -14dBm
Receiving Power Range: -8 ~ -30dBm
Link distance: 15km

IEEE Standards Compliance

IEEE 802.3 Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Flow Control

Management

Plug N Play
4-pin Piano switch
Loop Test support
Web management
IEEE 802.3ah OAM
Link Loss Forwarding technology to notify the peer if a link goes down

Mechanical

Dimensions (H x W x D): 35 x110 x180 mm
Weight: 500g
LED indicators: Power, Optical Link, Half/Full, Loop back testing, data and PC

Safety

CB
UL

Electromagnetic Compatibility

CE Mark
FCC Class B

Environmental Specifications

Temperature:
■ IEC 68-2-14
■ 0°C to 40°C (Standard Operating)
■ -40°C to 70°C (Non-Operating)
Humidity: 5% to 95% (Non-condensing)

Power

Power Consumption: 3W maximum
Power Supply: 1A at +12V (External power adapter 50/60Hz 100-120V or 230V AC included)

Warranty

One year warranty

Ordering Information

Optional Accessories

Package Contents

Product Description