

Ethernet Demarcation Device 802.3ah OAM Managed Switch MSW-202



CTC Union's carrier Ethernet demarcation transports Gigabit Ethernet (GbE) traffic over fiber, enabling EPL (Ethernet Private Line) & EVPL (Ethernet Virtual Private Line) services with advanced carrier Ethernet features per MEF (Metro Ethernet Forum)-9 and MEF-14 specifications. Supporting link and service Ethernet OAM schemes, the CTC Carrier Ethernet Demarcation also provides extensive fault detection and diagnostic capabilities to ensure that actual network use complies with pre-agreed service level agreements (SLAs).

Features

- MEF 9, MEF 14: EPL and EVPL
- Support 8K MAC
- Spanning Tree 802.1D, 802.1s, 802.1w
- Support 802.1q / 256 active VLANs
- Double VLAN Tagging (C-tag/S-tag) (IEEE 802.1ad) support for ISP application
- Various QoS capability (MAC/port/802.1p/Diffserv)
- Port-based rate limiting
- DHCP Snooping
- IGMP Snooping
- IPv6 support
- 802.3x and 802.1x support
- Jumbo frame for up to 9.6K
- Extensive OAM-P support
 - 802.3ah OAM
 - 802.1ag & Y.1731
- SNMP v1/v2c/v3, Telnet, Web GUI

Specifications

Optical Interface

Dual-speed (100M and 1000M)

2 WAN ports SFP based

Fiber optic: SFP based

Fast Ethernet (100BaseFX, 100BaseLX10, 100BaseBX10)

Gigabit Ethernet (1000Base-SX, 1000BaseLX10, 1000BaseBX10)

LAN Interface

2 LAN ports

Copper based : 10/100/1000BaseT RJ-45

Supports manual 10, 100,1000Base-T, Full, Half duplex, or n-way (Auto-Negotiation) each channel.

Standard

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

IEEE 802.3z 1000Base-X, IEEE802.3ab 1000Base-T

LEDs

Power, FX-1 Link, FX-2 Link,Test, UTP-1 Link, UTP-1 100/1000, UTP-2 Link, UTP-2 100/1000

Temperature

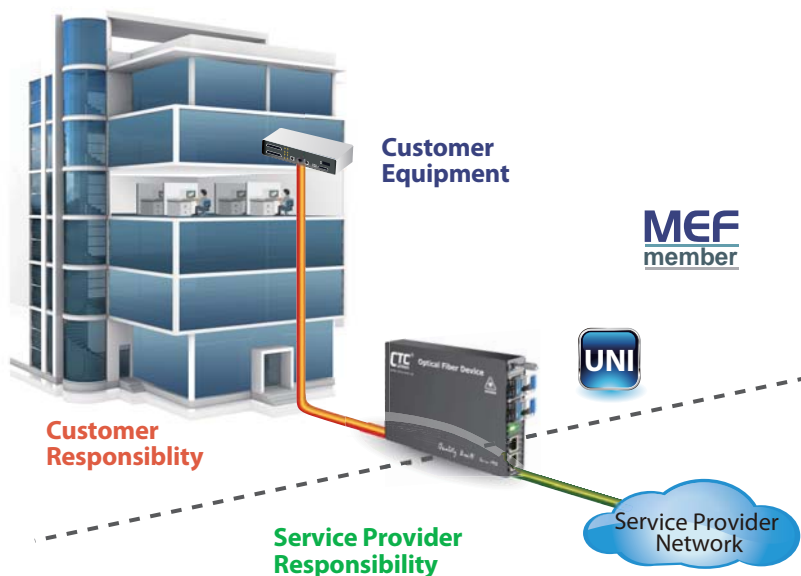
0 ~ 50°C (Operating); -10 ~ 70°C (Storage).

Humidity

20-80% non-condensing (Operating); 10-90% (Storage).

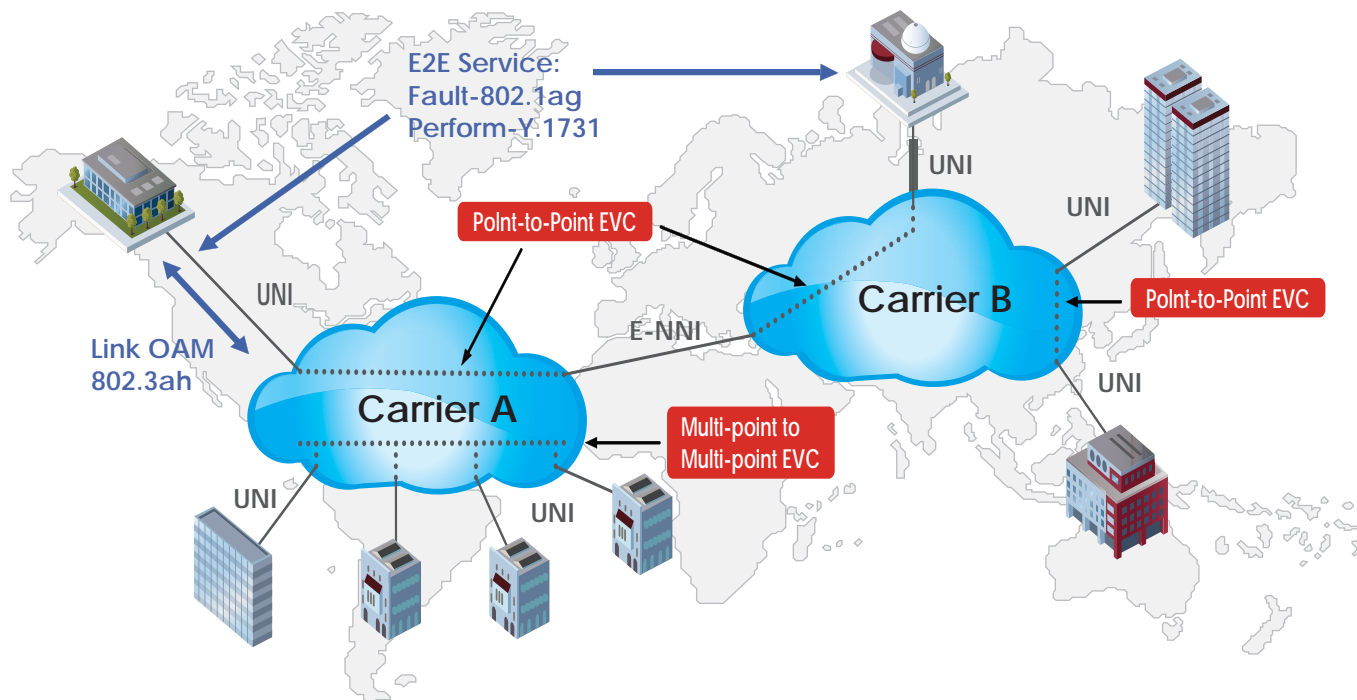
Power Consumption

Consumption: < 12W



Applications

- ▶ Ethernet in the First Mile (EFM)
- ▶ Fiber to the Premise (FTTP), E-Line and E-LAN
- ▶ Enterprise markets



First Mile Fiber Access

The EDD Series at the customer premises allows the operator to reach customers over fiber, while still selling a standard Ethernet copper connection. Being part of the operator’s network allows the converter to act as a demarcation point between the operator and the customer.

Managed Carrier Ethernet Demarcation Device

The EDD Series is fully manageable over the fiber connection via 802.3ah, 802.1ag / Y.1731 from system status monitoring to provision configuration.

Cost - Effective

CTC Union’s EDD Series offer a rich management tool set to reduce operational expenses (OPEX) and scale management to large access networks. The EDD Series augments existing IP/SNMP-based management frameworks with the IEEE 802.3ah Operations, Administration and Maintenance (OAM) protocol, the IEEE 802.1ag Configuration Fault Management (CFM) protocol, Y.1731 performance management CPE WAN management protocol.



Ordering Information

Model Name	Description
MSW-202	2-port 10/100/1000 Base-T + 2-port 100/1000 Base-X OAM/IP Swith