

Ethernet Demarcation Device (EDD)

ESW-102
ESW-202
ESW-104



This 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 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 10K
- Extensive OAM-P support
 - 802.3ah OAM
 - 802.1ag & Y.1731
 - TR-069
- Support DMZ, NAT
- AVB 802.1AS, 802.1Qat, 802.1Qav, 1588v2, Synchronous Ethernet
- SNMPv1/v2c/v3, Telnet, Web GUI

Optical Interface

Dual-speed (100M and 1000M) fiber interfaces (auto-detect)

Model:

ESW102: 1 WAN port SFP based

ESW202: 2 WAN ports SFP based

ESW104: 1 WAN port SFP based

Fiber optic: SFP based

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

Gigabit Ethernet (1000BaseSX, 1000BaseLX10, 1000BaseBX10)

Copper: 10/100/1000BaseT (copper SFP based)

LAN

Model: Copper Based

ESW102: 2 LAN ports

ESW202: 2 LAN ports

ESW104: 4 LAN ports

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 802.3ab, 802.3z 1000Base-TX, 1000Base-X

LEDs

ESW102 & 202: Power, FX-1 Link, FX-2 Link, Test, UTP-1 Link, UTP-1 100/1000, UTP-2 Link, UTP-2 100/1000

ESW104: Power, Alarm, Test, Active, FX Link, UTP-1~4 Link, UTP-1~4 100/1000

Temperature

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

Humidity

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

Power Consumption

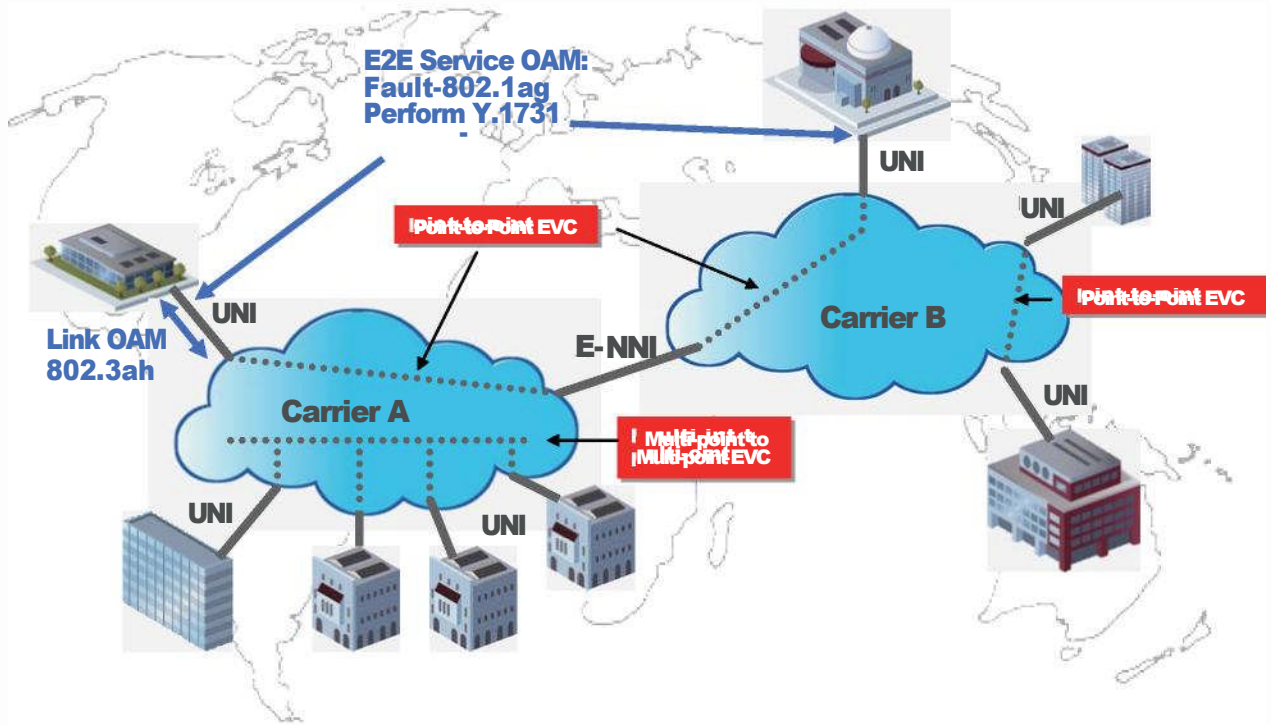
Consumption: < 12W

Metro Ethernet

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, TR-069 from system status monitoring to provision configuration.

Cost - Effective

The 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 and TR-069 CPE WAN management protocol.

Ordering Information

ESW- Model type

- 102
- 202
- 104

Example: ESW-102