



Net.Edge is an access point that can be configured as either a Boundary Clock (BC) or Transparent Clock (TC) to transports PTP to the edges while filtering and regenerating the signal before distributing it through its ports.

Datasheet

Updated on 10/9/25

ALBEDO Net.Edge

Net.Edge extends Net.Time across the WAN and substations. It can be configured as either a Boundary Clock (BC) or Transparent Clock (TC) to transports PTP to the edges while filtering and regenerating the signal before distributing it through its ports. This shortens paths, improves quality and facilitates scaling.

1. Features

1.1 Ports and Interfaces

- Ethernet SFP ports
- 2 x 2,5GbE + 6 x GbE
- 11 Gbps switch matrix

1.2 MPLS-TP switch

- MPLS-TP with 1:1 Linear Protection
- Hitless path protection switchover
- Virtual Private Wire & LAN Service (VPLS/VPWS) 8 x CoS
- OAM for MPLS-TP (G.8113.1/G8113.2/Y.1372)

1.3 Carrier Ethernet

- Compliant with Metro Ethernet Forum (MEF)
- Carrier Ethernet 2.0
- MEF UNI and NNI functionality
- OAM & performance testing (RFC 2544, ITU-T Y.1564)
- Ethernet Virtual Circuit (EVC) LINE, LAN, TREE
- VLAN Stacking Q-in-Q (IEEE 802.1ad)

1.4 E&M type Alarms

- 2 x input
- 2 x output

1.5 TDM over Packet

- Optional TDM SFP adapters
- V.24
- E1
- C37.94
- C37.94 asymmetry measurement & adjustments

1.6 Security

- Optional AES-256-GCM user data encryption and authentication
- Manual key configuration or Automated key exchange

2. Synchronization

- SyncE
- IEEE 1588 NMEA and PPS interfaces for PTP synchronization
- C37.238 power profile

3. Platform

3.1 Platform

- Ergonomics Compact 95×175×130mm enclosure
- Operation Temperature: -20...+65°C
- Fanless Operation

3.2 Environmental

- IP classification: IP40
- IEC61850-3 compliant
- IEEE1613 compliant

3.3 Power

- Two battery inputs
- 24 – 110V DC
- Power consumption 20W (max.)

4. General

4.1 Description

- An industrial IP access point for critical communications
- Made byDesigned by DNWP
- Manufactured in Finland
- Warranty 18 months

