



EDX1002sync

Gigabit Ethernet Demarcation

- ✘ Hardened version
- ✘ Remote flash software update
- ✘ SNMP Agent onboard
- ✘ Secure configuration via SSHv2 (Secure Shell) terminal
- ✘ Permanent remote in-band management
- ✘ Compact 3RU design



The EDX1002sync is a fully managed compact Gigabit-Ethernet demarcation device for Synchronous Ethernet applications. arcutronix technology is a powerful way to enable the delivery of high quality broadband services throughout the entire CSA (carrier servicing area). The EDX1002sync offers full local and remote management access to give carrier class performance monitoring and a wide range of SLA settings via SNMP, CLI and web-based management.

Introduction

The EDX1002sync is designed as synchronous media converter in provider's network and edge. A wide bunch of different optical interfaces are supported on LAN and WAN side of the unit. All types of GigE-SFPs are supported and so an universal synchronous converter/repeater for wavelength, fibre-mode and distance can be setup. The clocking information provided on the WAN-link can be derived on the EDX1002sync and forwarded to the user port. When acting on the provider's edge the EDX1002sync is terminating the optical Metro Ethernet or EFM-network towards the customer's CPE. Provider's VLAN tagging (acc. to 802.1ad) makes it possible to transparently interconnect networks of different customers and keep full privacy of data traffic. EDX1002sync can be housed in small footprint single-slot housings as well as 19" racks with central management access.

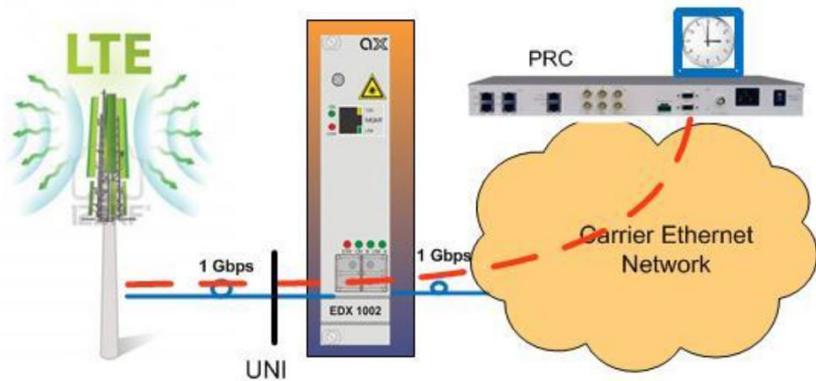
Features

- Carrier-class Gigabit-Ethernet conversion and optical GbE extension
- 2x GbE network ports for pluggable SFP
- SyncE supported
 - ⤿ Derive clock from GigE-port
 - ⤿ Provide clock towards downlink
 - ⤿ Support ESMC messages
 - ⤿ Switchover to internal oscillator in case of LOS or bad SSM-level
- SFP transceiver for short, long haul and WDM applications are supported
 - ⤿ Copper SFP (10/100/1000BaseT) supported
 - ⤿ No limitation for SFP usage
- Provider Bridge with QinQ support
- Bandwidth Limitation per port
- Performance monitoring on all ports



Application Example

EDX1002sync as Provider's demarcation point to serve a 4G LTE eNodeB. The provider's network is terminated at the UNI and the clock-information is transparently forwarded to the antenna. The media conversion function of the EDX1002sync can be used to adopt the distance to a short-length on the antenna side and a long distance towards the network.



Technical Specifications

Network I/F (WAN)

- 1x 1000BaseS X/LX/ZX/BX
 - ⤷ Pluggable SFP types
 - ⤷ Connector: SFP
 - ⤷ Electrical (RJ45) SFP for GbE

Service I/F (LAN)

- 1x 1000BaseS X/LX/ZX/BX
 - ⤷ Pluggable SFP types
 - ⤷ Connector: SFP
 - ⤷ Electrical (RJ45) SFP for GbE

Features

- Synchronous Ethernet
 - ⤷ LAN port is synchronous to WAN port
 - ⤷ No packet loss due to frequency mismatch
 - ⤷ Mobile backhaul support
- Traffic classification/priority based on TOS/DSCP/802.1P/802.1Q
- 4 priority queues for traffic management

- Low latency handling of VoIP/video services
- 802.1Q VLAN: forwarding, stacking (802.1Q-in-Q)
- 16 port based VLANs with tagging acc. IEEE802.1Q
- Remote Failure detection with LPT and RFD
- 8k MAC addresses supported
- Jumbo-Frames (>1518Byte) supported

Management

- CLI, HTTP/GUI and SNMPv1 and v2c
- Serial and Ethernet ports for local management
- SSH and Telnet support
- Software download via TFTP
- DHCP support

Environmental

- Operating: -25 to +70°C (ETS300019-1-3; class3.3)
- Transport: -25 to +70°C (ETS300019-1-2; class2.2)

- Storage: -25 to +55°C (ETS300019-1-1; class1.2)
- Humidity: 10 to 90%, non-condensing
- Safety-Norm: acc. to EN60950
- Emission: EN55022 class B

Power

- Supply Voltage: +5 VDC via Backplane
- Power consumption: < 7 VA, over current protected
 - ⤷ Total power consumption depends on SFPs
- Power supply via system rack SRX or housing SHX

Physical

- Weight: < 250g
- Dimensions:
 - ⤷ 130mm H x 30mm W x 190mm D
 - ⤷ 45mm H x 145mm W x 260mm D (in SHX3)
- 19" rack: 10 slots available in 3RU rack

