arcutronix

EDX1008
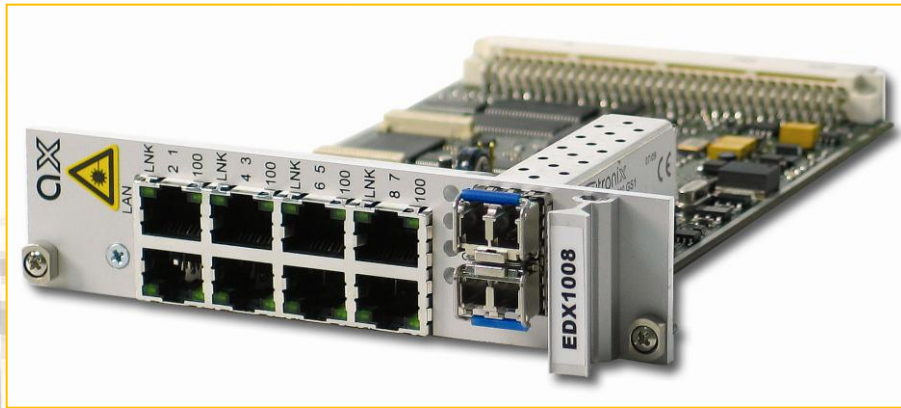## Gigabit Ethernet Demarcation

Introduction

The EDX1000 Family includes full managed compact Gigabit-Ethernet converters and repeaters, offering different number of Ethernet interfaces.
arcutronix technology is a powerful way to enable the delivery of high quality broadband services throughout the entire CSA (carrier servicing area).

The EDX1000 Family members are designed as demarcation devices for provider's network to connect 10/100/1000BaseT to optical GigE-links or to extend optical GigE-links. Thus terminating the optical Metro Ethernet or EFM-network towards the customer's CPE. Due to VLAN tagging (acc. to 802.1Q) the EDX1000 Family is able to transparently interconnect networks of different customers and keep full privacy of data traffic.

The EDX1000 Family offers full local and remote management access to give carrier class performance monitoring and a wide range of SLA settings via SNMP, CLI or web-based management. Due to that the EDX1000 Family consists of devices, which can easily operate all over provider's network and offering full access and monitoring features.
EDX1000 Family can be housed in small footprint single-slot housings or 19" racks.

Features

▶ Carrier-class Gigabit-Ethernet conversion from 10/100/1000BaseT to 1000BaseFX or optical GbE extension
▶ Up to 2x GbE network ports for pluggable SFP
▶ Optional service interfaces:
  1x 10/100/1000BaseT port (auto-neg./RJ45 conn.), 8x 10/100BaseT (auto-neg./RJ45), 6x 100BaseFX (pluggable SFP)
▶ SFP transceiver for short, long haul and WDM applications
▶ Copper SFP (10/100/1000BaseT) supported
▶ No limitation for SFP usage
▶ Bandwidth Limitation per port
▶ Ethernet Automatic Protection Switching (EAPS) according to RFC3619
▶ Jumbo-Frames supported
▶ Performance monitoring on all ports
▶ Remote flash software update
▶ SNMP Agent onboard
▶ Secure configuration via SSHv2 (Secure Shell) terminal
▶ Permanent remote in-band management
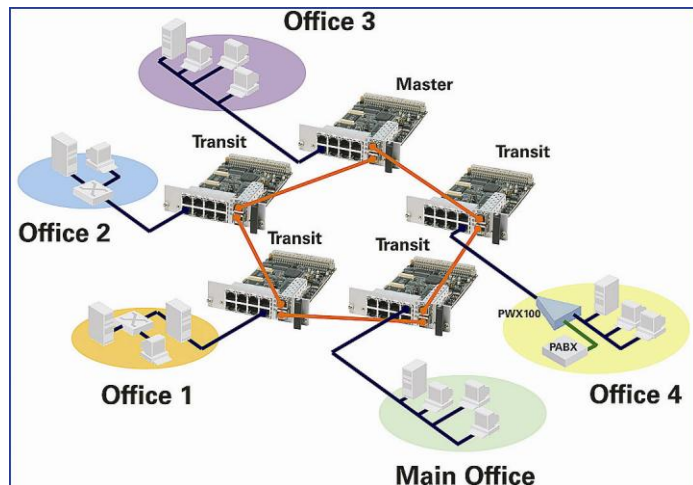▶ Compact 3RU design

EDX1008
Gigabit Ethernet Demarcation

Application Example

EDX1008 in GbE ring application.
EDX1008 enables customer to interconnect different office locations in GbE ring structure.
EAPS algorithm guaranties a protection-switching time of less than 50ms. EAPS is an IETF certified protocol for fast ring protection.

Specifications

Network I/F (WAN)

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

Service I/F (LAN)

- 8 x 10/100BaseT
    - IEEE 802.3
    - IEC 60870-5-104
    - Auto Negotiation, Auto MDIX
    - Connector: RJ45

Features

- 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
- Support of STP and RSTP according to IEEE 802.1
- Ethernet Automatic Protection Switching (EAPS) according to RFC3619
- 8k MAC addresses supported
- Jumbo-Frames supported:
    - MTU (Maximum Transmission Unit): 1632 Bytes

Management

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

Environmental

- Operating: +5 to +40°C (ETS300019-1-3; class3.1)
- 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

Specification may change without prior notice. Please refer to www.arcutronix.com for latest data-sheets.

For more information please contact arcutronix GmbH or visit us at www.arcutronix.com.