

# ETHERNET TO E1 CONVERTER – EoP 16 ELCONNECT®

**UNIVERSAL** Use of globally available  
standardised interfaces (E1/G.703)

**SIMPLE** Easy Upgrade of existing infrastructures,  
Triple Play over TDM

**RELIABLE** Superior quality of service (QoS),  
highest availability



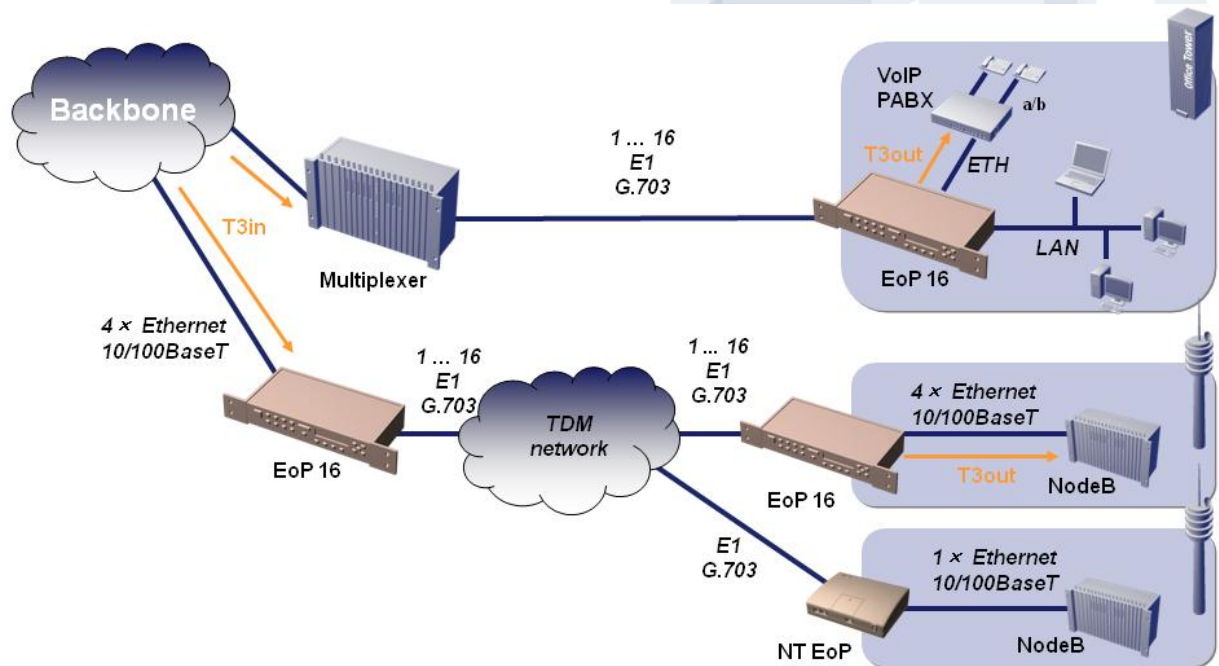
## THE PRODUCT

Today communication is a significant business factor. In order to create homogeneous networks, it is necessary to use standardized interfaces. More and more CPE's are connected via the Ethernet port, whereas country-specific access lines and -services with WAN-links are frequently realised over the common G.703-interface.

The EoP 16 realise the conversion from the E1/G.703 interface to the Ethernet port. This both comfortable and cost-efficient solution for the set-up of virtual private networks (E-Line, E-LAN) allows smooth interconnection of routers, individual PC's or even complete local networks over the widely spread SDH-/PDH-networks.

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## APPLICATION



## FEATURES

- Converter for Ethernet on 16 × E1 for IP transmission over PDH/SDH networks
- Operation as stand-alone device for point-to-point connections (Master/Slave), application as slave unit with SDH-multiplexers, and for the aggregation of up to 4 WAN-connections in conjunction with the EoP 16 or NT EoP
- Support of E-Line and E-LAN services
- Support of GFP/LAPS/HDLC encapsulation for E1 bonding of up to 16 × E1 connections
- Support of VLAN, Q-in-Q, 802.1p and DSCP
- Support of VCAT/LCAS Link Aggregation for 4 VCG's
- Quality of Service (QoS) due to Traffic Shaping through CIR/CBS Policing and weighting functions Strict & WRR
- WAN-to-LAN fault propagation (SSF – Server Signal Fail: Disabling of the respective ETH-LAN interface in case of connection faults on the E1-WAN interface)
- Support of CSF (Client Signal Fail) in GFP-mode (Disabling of the local ETH-interface upon occurrence of faults on the ETH-interface of the far-end device)
- Embedded Web server for local or remote management (LCT)
- Optional SNMP management for remote configuration and management (on request)
- Reference clock pulse I/O for retiming of the EoP 16 or systems connected to it

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## ELCONNECT®

### TECHNICAL DATA

#### S2M / E1 interface (WAN)

- Standard ITU-T G.703/704 (PCM31/PCM31CRC)
- Data bit rate 2048 kbps
- 16 × E1 PRA
- Impedance 120 Ω balanced (Factory default, switchable to 75 Ω)
- Connectors: RJ45

#### Ethernet ports (LAN)

- Standard 10/100BaseT acc. to IEEE-802.3
- Bit rate 10/100 Mbps, auto-negotiation or default setting, full/half duplex, AutoMDI/MDIX, flow control
- Supports ETH packet sizes of up to 1532 / 1536 byte/frame (depends on mode)
- Up to 2048 learned MAC addresses
- Connector RJ45

#### Management interface (LCT)

- Standard 10/100BaseT acc. to IEEE-802.3
- Bit rate 10/100 Mbps, auto-negotiation, full/half duplex, AutoMDI/MDIX
- Connector RJ45

#### Reference clock pulse interfaces (T3)

- Standard ITU-T G.703, G.810, G.812, G.813, G.823 and G.825
- T3ab/T3an: 2.048 MHz (option: 8 kHz)
- Impedance 120 Ω symmetrical
- Connector RJ45

#### Power supply

- Standard: 2 × 48 V DC (redundant)
- Power consumption: < 9 W
- Option: 230 V AC via adapter

#### Physical parameters

##### Casing

- Dimensions (W × D × H): 445 mm × 235 mm × 45 mm
- Weight: approx. 3.4 kg
- Housing material: Metal

##### Environmental conditions (operation)

- Air temperature: 0°C ... +55°C;
- Rel. air humidity: 5% ... 95%, not condensing

#### EMC & Safety

- CE-marking
- EMC: ETSI EN 300 386, ETS ES 201 468, ITU-T K.21, 1TR9
- Safety: EN 60950-1
- Degree of protection: IP20

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#### PURCHASE ORDER INFORMATION

Product designation	Order number
EoP 16	900180