ETHERNET TO E1 CONVERTER – NT EOP

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

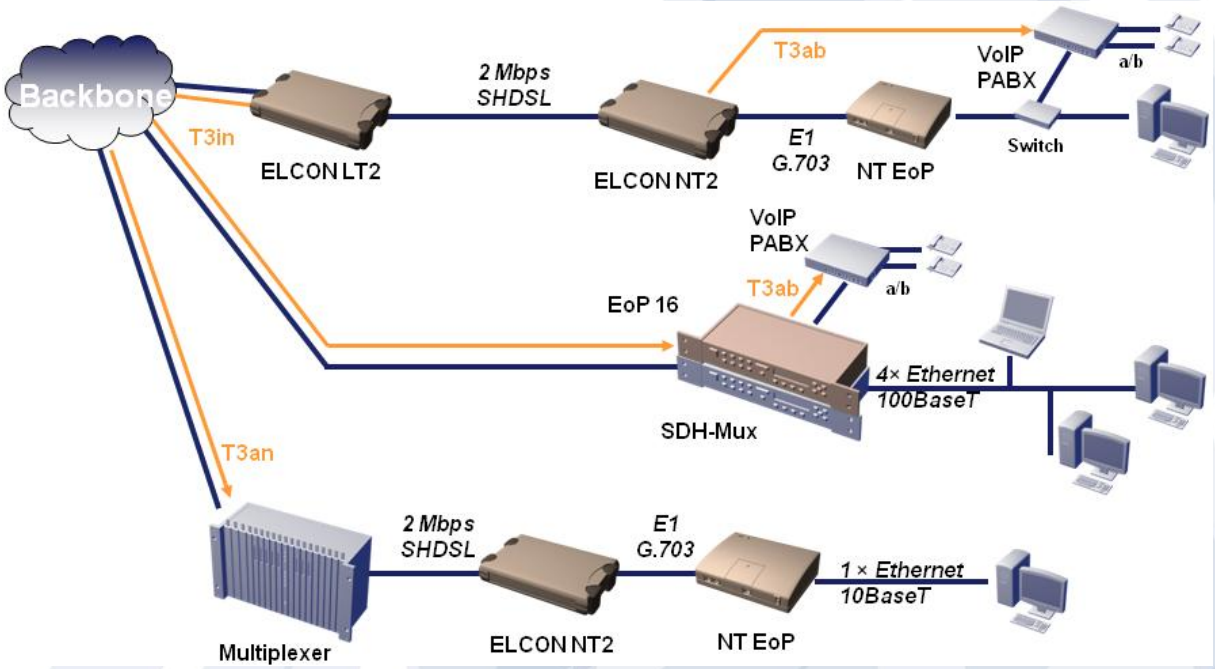
Today communication is a significant business factor. In order to create homogeneous networks, it is necessary to use standardized interfaces. More and more CPE's are connected via the Ethernet port, whereas country-specific access lines and -services with WAN-links are frequently realised over the common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

The NT EoP 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.

ETHERNET TO E1 CONVERTER – NT EOP

ELCONnect®

APPLICATION



FEATURES

- Converter for Ethernet on 1 × E1 for IP transmission over PDH/SDH networks
- Optional SHDSL module for stand-alone operation (LT/NT) and operation at the SDH multiplexer
- Stand-alone point-to-point operation LT-NT for campus scenario
- Support of E-Line and E-LAN service
- Support of GFP/LAPS/HDLC encapsulation for E1 transmission
- Support of VLAN, Q-in-Q, 802.1p and DSCP
- Support of jumbo frames
- 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 management (LCT)
- Optional SNMP management for remote access and management (on request)

ES/MM-02-58-01-en

ETHERNET TO E1 CONVERTER – NT EOP

ELCONnect®

TECHNICAL DATA

S2M / E1 interface (WAN)

- Standard ITU-T G.703/704 (PCM31/PCM31CRC)
- Data bit rate 2048 kbps
- 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 2048 byte/frame (standard) or resp.
  up to 9018 byte/frame (extended mode)
- Up to 4096 learned MAC addresses
- Connector RJ45
- PoE sink (option), IEEE-802.3af, PD class 2

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

Power supply (standard)

Power supply of plug-in power supply module (Euro plug)

- Operating voltage range: 100 V … 240 V AC
- Frequency range: 50 Hz … 60 Hz
- Current consumption: ≤ 0.5 A

Power supply of NT EoP

- Nominal voltage: 5 V DC, < 1.5 A
- Power consumption: < 5 W

Power supply with PoE operation (option)

PoE- power sink for power supply via the Ethernet- (LAN-) port

- Standard IEEE 802.3af, PD class 2
- Powering via PSE either via RX/TX or the idle pairs

Physical parameters

Casing

- Dimensions (W × D × H): 173 mm × 150 mm × 45 mm
- Weight: approx. 0.4 kg
- Housing material: Thermoplastic, Flammability Class UL94-V0

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
- Safety: EN 60950-1
- Degree of protection: IP40

PURCHASE ORDER INFORMATION

Product designation	Order number
NT EoP (with PoE)	900130
NT EoP (without PoE)	900208

ES/MM-02-58-01-en

ELCON Systemtechnik GmbH
Hartmannsdorf • Eschborn • Paris • Vienna
info@elcon-system.com • www.elcon-system.com