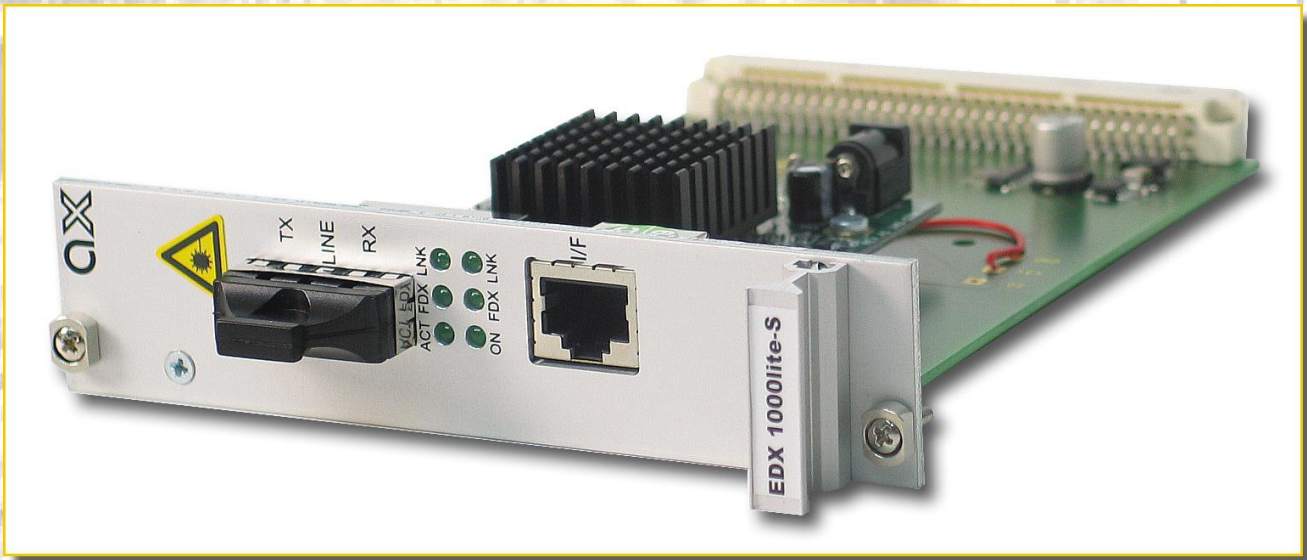


Gigabit Ethernet Converter EDX1000lite



Short Description

The Ethernet converter EDX1000lite is an unmanaged Gigabit Ethernet media converter, which offers an economical copper to fiber optic signal conversion.

As Ethernet has evolved into the most widely implemented physical and link layer protocol today, more and more services are delivered on Ethernet infra-structure. As bandwidth demand is growing, Gigabit Ethernet to the customer satisfies today needs for broadband access. Fiber optic connections allow long-haul Ethernet-links to spread Gigabit Ethernet services into a wide area.

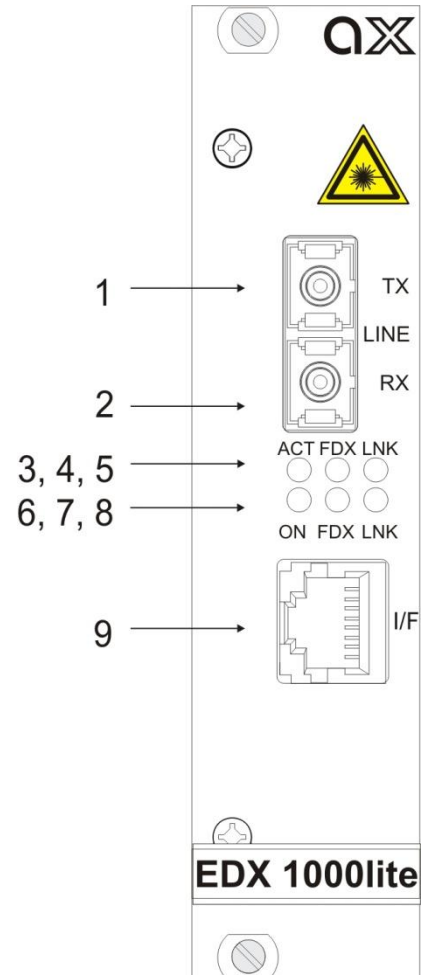
EDX1000lite is an easy to install and easy to operate device, which saves costs and energy. In case of signal loss of fiber optic port, an alarm-output is triggered for external use, so failures can easily be detected and problem-location is quickly done.

As part of arcutronix Multi Service Platform EDX1000lite can be housed in small footprint single-slot housing or 19" rack to achieve high density on small footprint.

Connectors, Indicators and Controls

Front Panel

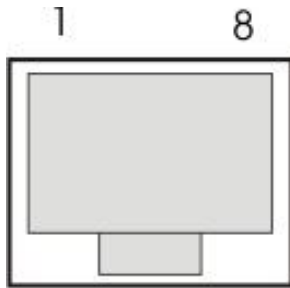
- 1) Fiber Optic Transmitter
- 2) Fiber Optic Receiver
- 3) ACT: Traffic on Line or I/F port
- 4) FDX: On = Full duplex mode on Line port
- 5) LNK: On = Line link with 1000BaseFX
- 6) ON: On = Power On
- 7) FDX: On = Full duplex mode on I/F port
- 8) LNK: On = I/F link with 1000BaseTX
- 9) I/F port 1000BaseT



Unit Setup

The Ethernet converter EDX1000lite is a “plug’n’play” unit, which needs no special setup. Installation in single-slot housing (SHX) or system rack (SRX) must be done according the specification of these devices. After installation of the EDX1000lite in the housing, attach fiber optic cable and CAT5 (better 5e) cable to interfaces.

RJ45 Pinout (Female)



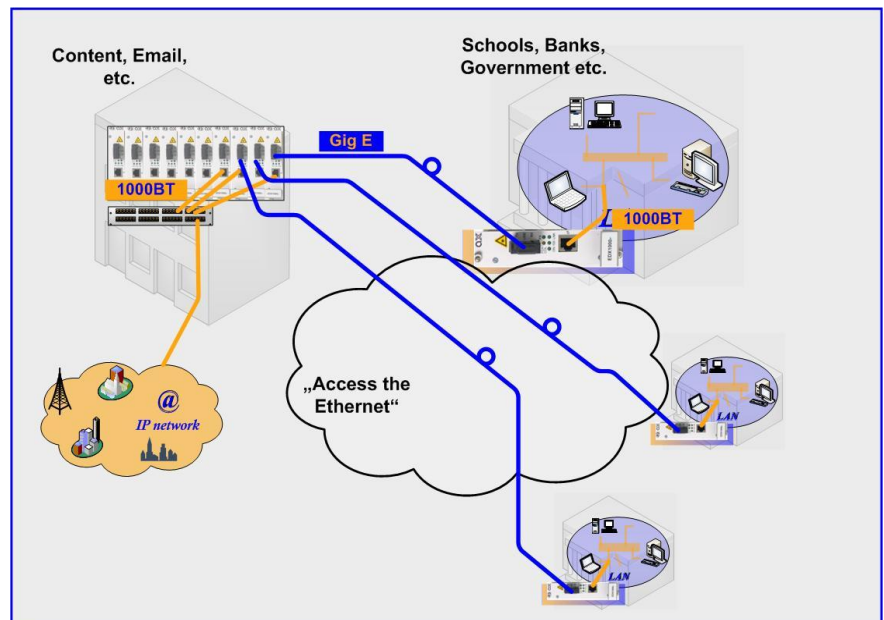
1000BaseTX port
acc.
EIA/TIA T568B

| Pin | Signal |
|-----|--------|
| 1 | BI_DA+ |
| 2 | BI_DA- |
| 3 | BI_DB+ |
| 4 | BI_DC+ |
| 5 | BI_DC- |
| 6 | BI_DB- |
| 7 | BI_DD+ |
| 8 | BI_DD- |

Application Example

The EDX1000lite can be used to bridge long distances, thus enhancing copper Ethernet networks by using a fiber optic line between branch offices or to achieve GE-rollout for customers.

Each EDX model is a 3U card that can be either plugged into a 19" rack system chassis for POP application, or a stand-alone chassis as a customer premises equipment.



Technical Data

Network I/F (WAN)

- 1x 1000Base-LX
 - SC connector
- IEEE 802.3
- VLAN support

Service I/F (LAN)

- 1x 1000BaseT
 - IEEE 802.3
 - Auto MDIX
 - Connector: RJ-45

Features

- Plug-n-Play installation
- Low power consumption
- Support of Jumbo Frames
- Support of VLAN-tagged traffic
- LEDs on front to indicate status

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
- EMC
- Emission: EN55022 class B
- Immunity: EN61000-4-3 10V/m

Power

- Supply Voltage: +5VDC (4,8 to 5,2 V) from BP
- Power Consumption: < 4VA, overcurrent protected
- Voltage/Lightning Protection: ITU-T K.20/K.21
- Power supply via system rack SRX or housing SHX

Physical

- Weight: < 350g
- Dimensions:
 - 130mm H x 30mm W x 190mm D
 - 45mm H x 145mm W x 260mm D (in SHX3)
- 19" rack: 24 (10) slots available in 6U (3U) rack

General Safety Precautions

Transport, Installation and Operation

- Avoid excessive vibration and shocks.
- Avoid contact with water, dust, and dirt.
- Avoid excessive direct sunlight.
- Ensure sufficient cooling.
- Prevent loose items from falling into the device.

Fiber Optics

- Looking into the fiber optic output can cause injury to the eye. When observation is necessary, precaution must be taken to avoid exceeding the limits recommended in ANSI Z136.1-1981.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Impressum

arcutronix GmbH

Garbsener Landstr. 10
30419 Hannover
Germany

Phone: +49 (511) 277 2700

Fax: +49 (511) 277 2709

Web: www.arcutronix.com

Sales-Contact: sales@arcutronix.com

Technical-Support: service@arcutronix.com