NTBA 24 V DC – ISDN NETWORK TERMINATION

ELCONnect®

SIMPLE Plug&Play installation

FIELD-PROVEN High quality and dependability

RELIABLE thanks to local power supply with 24 V DC

THE PRODUCT

Network Terminating Unit for ISDN Basic Connections

As network terminating unit for ISDN basic connections, the NTBA 24 V DC enables the transition from the public ISDN subscriber line to the private S-bus. The interface allows the connection of ISDN communication systems, ISDN telephones and ISDN PC cards, offering subscribers access to all the services provided by their network operator.

To connect the device to the network of the network operator, the NTBA 24 V DC is offered in two line code versions at the U-interface (2B1Q, on request 4B3T), depending on the device type.

For ISDN signaling, the system provides two 64 kbps bearer channels and a 16 kbps data channel (a signaling channel which can also serve for data transmission). Two simultaneous external calls are possible, as is channel bundling: the use of both bearer channels for the transfer of large amounts of data.

The NTBA 24 V DC comes with a wall-mounted casing. Power supply for the NTBA 24 V DC and the connected terminal devices without individual voltage supply is exclusively realized through a 24 V DC local power supply module. A potentially available remote feeding option of the U-interface will not be used by the NTBA 24 V DC for internal power supply. If the user requires a device with remote powering, ELCON offers its NTBA standard version with remote power supply functionality.

Advantages of the ELCON system

- Simple conversion to an ISDN connection by use of already deployed subscriber lines
- Quick configuration thanks to easily accessible DIP-switches
- Low susceptibility to interferences
- Small, compact housing
- Easy installation
- Highly economical, low power consumption

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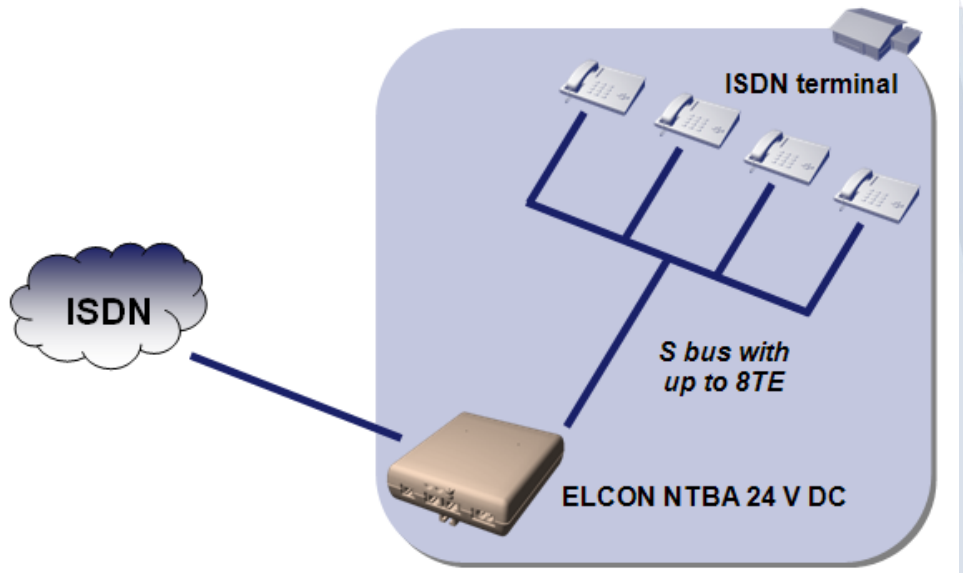
Application



Technical Data

U interface

- acc. to ETSI TS 102 080 guideline
- Echo cancellation for direction separation on a twin-wire subscriber line
- Line code 2B1Q, on request 4B3T
- Operating range (if no noise signals occur):
  - 4.8 km (2B1Q) / 4.2 km (4B3T) using Ø 0.4 mm cable
  - 9.0 km (2B1Q) / 8.0 km (4B3T) using Ø 0.6 mm cable
- Connector: 1 × RJ11 symmetrical

S/T interface

- acc. to ETS 300 012 guideline
- Operating range:
  - max. 220 m (short passive bus)
  - max. 1100 m (point-to-point connection)
- Transmission method: Four-wire duplex
- Channel structure: 2B+D, synchronisation and monitoring
- Line code: AMI (modified)
- Total bit rate: 192 kbps
- Useful bit rate: 144 kbps
- Wattage: ≥ 4.5 W
- Connector: 2 × RJ45 symmetrical

Power supply

- Nominal voltage: 24 V DC ± 4 V
- Power consumption: 14 VA

Physical parameters

Casing dimensions

- 116 × 105 × 38 mm³ (W × H × D)

Ambient temperatures

- Transport/Storage: -25°C … +55°C
- Operation: 0°C … +55°C

EMC & Safety

- EMC: DIN EN 55022, ETSI EN 300 386, ETSI TS 201 468, 1TR9, ITU-T K.21/22; optional: EN 50121-4
- Safety: DIN EN 60950

Purchase Order Information

Product designation	Order number
NTBA 24 V DC 2B1Q	900249
NTBA 24 V DC 4B3T	on request

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