



**Efficient digital network data connections for small and medium-sized businesses using existing local loop lines.**

**Overview**

The DNT128 and DNT128-sp data network terminals give access to fixed network and remote data services from the customer's premises. Part of the Nokia Dynanet product family, they offer a significant advantage over standard modems because the network operator can control the entire network efficiently and react to changes in the network as the end-user requires. Dynanet products feature full network management support for all individual elements in a network.

Nokia offers two versions of the DNT128 data network terminal, the DNT128 and the DNT128-sp. The DNT128 has full features, including multiplexing support and two independent data interfaces. The DNT128-sp gives standard  $n \times 64$  kbit/s service with a single data interface adapter (single port). The maximum capacity provided for the user's data applications is 128 kbit/s from the ISDN BRI line rate.

**Applications**

The DNT128 typically provides two 64 kbit/s channels for data transmission. Alternatively, the same capacity can be dedicated to

a single port. For some specific applications, lower synchronous or asynchronous speeds can be provided if the V.110 feature is used. Both the DNT128 and DNT128-sp can also be used for applications where simple multipoint operation is required.

The DNT128 network terminals can also be used as baseband modems. In baseband operation two DNT128s are connected together over the 2-wire subscriber line. At the master end DNTs support both internal and external timing, where the external timing allows synchronisation to any TDM equipment involved.

At the network node the copper line is connected to the multiplexer's Integrated Line Terminal (ILT) unit, a member of the Dynanet family of primary multiplexers, branching units and cross-connects. The ILT makes possible up to four parallel connections to corresponding DNT units.

The DNT128s can be managed locally from the terminal's front panel, remote management is accomplished with the service terminal, Node Manager or with any Nokia NMS platform product.

## DNT128

**Data**

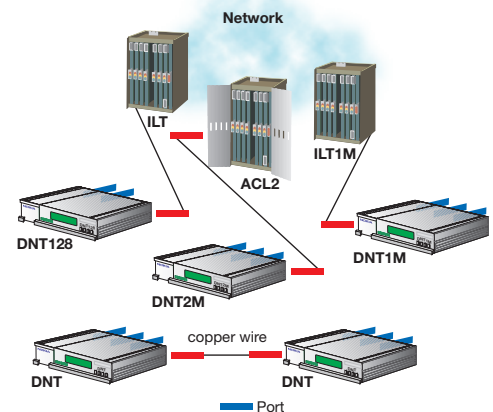
**Network**

**Terminals**

**Technical Highlights**

- 2B1Q line coding
- IDSL network terminal features
- 128 kbit/s maximum data rate
- Interchangeable DTE port adapter
- Can be managed with Nokia NMS products
- Built-in TDM multiplexer

*Dynanet HDSL Network Applications (over copper line)*



**NOKIA**

## Technical Data

**DNT 128**

<b>Product name and code</b>	DNT128 Data Network Terminal DNT128 DS60250	DNT128 -sp Data Network Terminal DNT128-sp T65250,xx
<b>Line interface</b>	Based on ISDN BRI U-interface 2-wire Line code 2B1Q Line rate 160 kbit/s Line impedance 135 ohm Compatible with Nokia ILT unit (TU21132.xx)	Based on ISDN BRI U-interface 2-wire Line code 2B1Q Line rate 160 kbit/s Line impedance 135 ohm Compatible with Nokia ILT unit (TU21132.xx)
<b>Terminal interfaces</b>	V.11, V.28, V.35, X.21, G.703/64k, EIA-530, VF-int.	V.11, V.28, V.35, X.21, G.703/64k, EIA-530, VF-int.
<b>Number of DTE interfaces</b>	2	1
<b>Terminal data rates</b>	Asynch: 12.; 2.4; 4.8; 9.6; 19.2 kbit/s Synch: 1.2; 2.4; 4.8; 9.6; 19.2; 48; 56; 64; 128 kbit/s	Synch: 128, 64, 56, 48, 32 kbit/s
<b>V.110 support</b>	Yes	No ( only 48k )
<b>Operational range</b>	5.5 km on 0.4 mm cable	5.5 km on 0.4 mm cable
<b>Operation and management</b>	Nokia Q1 based e.g. NMS-platform	Nokia Q1-based
<b>Power</b>	Power supply 90 - 264 V (AC) Power consumption 10 W, Optional DC-power 20-75 VDC	Power supply 90-264 V ( AC) Power consumption 6 W, Optional DC power 20-75 VDC
<b>MTBF ( years )</b>	25	38
<b>Mechanical construction ( H x W x D )</b>	55mm x 290mm x 265 mm	54 mm x 212mm x 356mm
<b>Weight</b>	2 kg	2 kg
<b>Environmental specifications</b>	Transportation ETS 300019-1-2 class 2.3 Storage ETS 300019-1-1 class 1.2 Operation ETS 300019-1-3 class 3.2	Transportation ETS 300019-1-2 class 2.3 Storage ETS 300019-1-1 class 1.2 Operation ETS 300019-1-3 class 3.2
<b>Electromagnetic compatibility</b>	EN 50081-1:1992 EN 55022 Class B EN 50082-1:1992 EN 50082-2:1995 ETS 300386-1:1994	EN 50081-1:1992 EN 55022 Class B EN 50082-1:1992 EN 50082-2:1995 ETS 300386-1:1994
<b>Safety and protection</b>	EN 60950:1993 EN 41003:1993	EN 60950:1993 EN 41003:1993
<b>Node Manager software</b>	P69020.01; .03; .06	P69020.01; .03; .06

All Nokia products are subject to continuous research and development; we therefore reserve the right to alter technical specifications without prior notice.



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