



DNT2M Network Terminal

The Nokia DNT2M network terminating unit is a highly efficient and cost-effective 2 Mbit/s High-bit-rate Digital Subscriber Line (HDSL) terminal for standard, unconditioned copper-wire local loop facilities.

Product Concept

The Nokia DNT2M (Data Network Terminal) provides nx64kbit/s services and data access, over connections to the 2M service (ACL2) in the central site. The DNT2M is an HDSL network terminal for transmission of 2 Mbit/s services (ISDN PRI, structured or unstructured leased line) over the subscriber loop using two twisted copper pairs. This equipment provides multiple (1...3) G.703/G.704, V.11, V.35, X.21, V.28, EIA-530-A and 10Base-T customer interfaces. The DNT2M is a piece of stand-alone equipment located on the customer's premises. It connects to the network node's line terminal unit, the ACL2 (local powered), ACL2-pf (power feeding) or ACL2-rp (remote powered).

The transmission conforms with ETSI TS 101 135 (ETR 152) compatible, providing extremely high quality transport over distances of up to 5 kilometres using twisted copper pairs. The DNT2M equipment can be used in the delivery of all E1 services (voice, data, image and video) to end-user applications.

Network Management

The DNT2M network terminal can be managed locally from the terminal's front panel or with the aid of Windows-based node manager software on a PC. Remote management is accomplished with the service terminal or with the Nokia Network Management system (NMS platform).

The management features include remote configuration, test loop activation, line quality monitoring and alarms. Full remote configuration reduces installation requirements to a minimum line and power connection and address configuration. Full device configuration can be done from the central management site.

Technical highlights

- 2B1Q line coding
- Echo cancellation
- 2 Mbit/s of aggregate bandwidth
- Powered remotely
- Complies with the Nokia NMS management system
- ETSI TS 101 135 (ETR 152) compatible
- nx64 kbit services
- With integrated TDM features, up to 3 user interfaces

Technical Data

Product Codes

DNT2M-sp EXP/AC	T65620.01
DNT2M-sp EXP/DC	T65620.11
DNT2M-sp EXP/RP	T65620.21
DNT2M-mp EXP/AC	T65630.01
DNT2M-mp EXP/DC	T65630.11
DNT2M-mp EXP/RP	T65630.21

Interfaces

Network Interfaces	
Line code	2B1Q
Line rate	2 x 1.168 Mbit/s
Signal bandwidth	0-292 kHz
Line interface	4-wire
Line impedance	135 ohm
TX power	13.5 dBm/@135 ohm
Equipment interfaces (1-3 pcs)	G.703/64k, G.703/2M, G.704/2M, V.11, V.28, V.35, X.21, EIA-530-A, 10Base-T

Transmission Performance

Meets or exceeds noise margin specifications in ETSI TS 101 135 (ETR 152)

Operation and Management

Local Management: Node Manager, Service Terminal, Service Terminal Emulator
Remote Management: Nokia NMS platform tools, Node Manager, Service Terminal, Service Terminal Emulator

Power

Power supply	90-264 V (AC) 20-75 V (DC) 50-150 V (powered remotely)
Power consumption	9W (sp), 14W (mp)

MTBF

<i>mp</i> : 61 yrs	<i>sp</i> : 76 yrs
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Mechanical Construction

<i>sp</i> : 55 x 290 x 240 mm (H x W x D)	<i>mp</i> : 90 x 290 x 240 mm (H x W x D)
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Environmental Specifications

Transportation	ETSI ETS 300019-1-2 class 2.3
Storage	ETSI ETS 300019-1-1 class 1.2
Operation	ETSI ETS 300019-1-3 class 3.2

Electromagnetic Compatibility

EN 55022 Class B:1998, EN 55024:1998, EN 50082-2:1995, ETS 300386-1:1994