



DNT2Mi Network Terminal

Nokia DNT2Mi network terminating unit is a highly efficient and cost-effective n*64 kbit/s Single-pair High bit rate Digital Subscriber Line (SHDSL) terminal for standard, unconditioned copper wire local loop environment.

Product Concept

Nokia DNT2Mi (Data Network Terminal) provides voice and data transport over the local loop to the 2M service at the central site. The unit is a SHDSL network terminal for transmission of n*64 kbit/s services (ISDN PRI, structured or unstructured leased line) over the subscriber loop using one, or alternatively two, twisted copper pairs. The unit provides multiple (1..3) G.703/G.704, V.11, V.35, X.21, V.28, EIA-530-A, and 10Base-T customer interfaces. DNT2Mi is a stand-alone equipment located at the customers premises. It typically connects to the network node's line terminal unit ACL2i (locally powered), ACL2i-PF (power feeding), or ACL2i-RP (remotely powered).

The transmission conforms with ITU-T recommendation G.991.2 providing high quality, high performance transport over long physical distances using twisted copper pairs as a communication path. DNT2Mi is a TDM-based equipment which can be used for delivering any E1 or fractional E1 services (voice, data, image and video) to the end user application.

Network Management

DNT2Mi Network Terminal can be managed locally from the terminal's front panel or by using PC-based management tools. Remote management is enabled by using a 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 requirement to a minimum line, power connection, and address configuration. Full device configuration can be done from the central management site.

Technical Highlights

- ITU-T G.991.2 compliant
- TC-PAM line coding
- 2-wire / 4-wire operation
- n*64 kbit/s line rates
- 2Mbit/s of aggregate bandwidth
- Remote powering
- Complies with Nokia NMS management system
- n*64 kbit/s services
- Integrated TDM features with up to 3 user interfaces

Technical data

DNT2Mi

Product Codes

DNT2Mi-sp EXP/AC	T65670.01
DNT2Mi-sp EXP/DC	T65670.11
DNT2Mi-sp EXP/RP	T65670.21
DNT2Mi-mp EXP/AC	T65680.01
DNT2Mi-mp EXP/DC	T65680.11
DNT2Mi-mp EXP/RP	T65680.21

Interfaces

Network Interfaces	Line code	TC-PAM (Trellis Coded Pulse Amplitude Modulation)
	Line rate	n*64 kbit/s (192...2048 kbit/s)
	Signal bandwidth	0...300 kHz (2 Mbit/s)
Line interface	2-wire, or 4-wire	
Line impedance	135 ohm	
TX power (0dB power backoff)	13.5 dBm@135 ohm (192...1984 kbit/s)	
	14.5d Bm@135 ohm (2048 kbit/s)	
Equipment interfaces (1...3 pcs)	G.703/64k, G703/2M, G.704/2M, V.11, V.28, V.35, X.21, EIA-530-A, 10Base-T	

Transmission performance

Meets or exceeds ITU-T G991.2

Operation and Management

Local management	Service Terminal, Service Terminal Emulator
Remote management	Nokia NMS platform tools, 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

sp: 134 years mp:73 years

Mechanical Construction

sp: 55 x 293 x 237 mm (H x W x D)
mp: 91 x 293 x 237 mm (H x W x D)

Environmental Specifications

Transportation	ETSI ETS 300 019-2-2 class 2.3
Storage	ETSI ETS 300 019-2-1 class 1.2
Operation	ETSI ETS 300 019-2-3 class 3.2

Electromagnetic Compatibility

EN 55022 Class B: 1994
EN 55024: 1998
EN 300386-2:1998