

DNT2Mi Network Terminal

Nokia Siemens
Networks



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.

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

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 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)
Line interface	Signal bandwidth	0...300 kHz (2 Mbit/s)
	2-wire, or 4-wire	
Line impedance	135 ohm	
TX power (0dB power backoff)	13.5 dBm@135 ohm (192...1984 kbit/s)	
	14.5 dBm@135 ohm (2048 kbit/s)	
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 ITU-T G.991.2	
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)
	Power consumption	50...150 V (powered remotely) 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: 1998	