



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 repeatless 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, and V.28 customer interfaces, as well as EIA-530-A access to the digital trunk network.

The DNT2M is a piece of

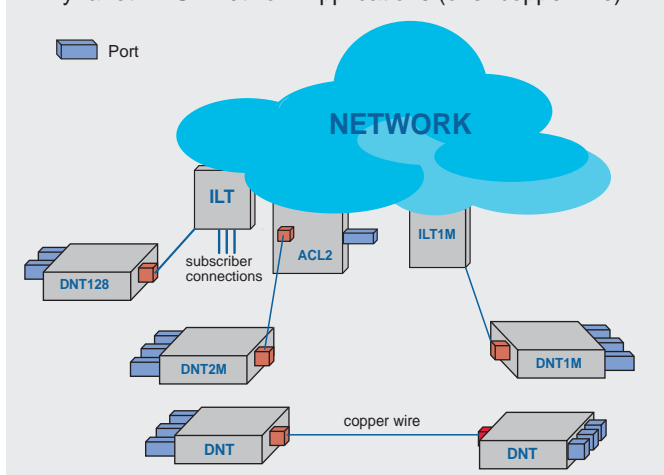
stand-alone equipment located on the customer's premises. It connects to the network node's line terminal unit, the ACL2. The unit can be powered remotely by deploying the RPF3 power feeding unit in the DYNANET line terminal rack. The transmission conforms with ETSI ETR 152, providing extremely high 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.

Technical Highlights

- 2B1Q line coding
- Echo cancellation
- 2 Mbit/s of aggregate bandwidth
- Powered remotely
- Complies with the Nokia TMS4 management system
- ETSI ETR 152 compatible
- nx64 kbit services
- With integrated TDM features, up to 3 user interfaces

Dynanet HDSL Network Applications (over copper line)



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.

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Technical Data

DNT2M Network Terminal

Product Codes	DNT2M (AC)	T65600.01
	DNT2M (DC)	T65600.02
	DNT2M-rp	T65610.01
	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	<i>Network Interfaces</i>	
	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
	Transmission Performance	Meets or exceeds noise margin specifications in ETSI ETR 152
Operation and Management	Local management interface (RJ45), Node Manager P69015.01 Remote NMG (DYNANET TMS4) interface	
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: 27 yrs sp: 32 yrs</i>	
Mechanical Construction	<i>sp: 55 x 290 x 240 mm (H x W x D) mp: 90 x 290 x 240 mm (H x W x D)</i>	
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	ETS 300386 (1994)	
	prETS 300246 (July, 1993)	
	prETS 300248 (July 1993)	

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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