

DNT2Mi-fp Network Terminal



Nokia DNT2Mi-fp network terminating unit is a highly efficient and cost-effective nx64 kbit/s Single-pair High bit rate Digital Subscriber Line (SHDSL) terminal for a standard copper wire local loop environment.

Product Concept

Nokia DNT2Mi-fp (Data Network Terminal) provides voice and data transport over the local loop to the central site. The unit is a SHDSL network terminal for transmission of nx64 kbit/s services (ISDN PRI, structured or unstructured leased line) over the subscriber loop using one or two twisted copper pairs. The unit is equipped with a G.703/G.704 interface to the customer equipment.

DNT2Mi-fp is a stand-alone piece of equipment located at the customer's premises. It typically connects to the network node's line terminal unit Nokia ACL2i.

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-fp is optimized for delivering all E1 or fractional E1 services (voice, data, image and video) to the end user application. Installation accessories enabling flexible and functional installation within different environments are available.

Network Management

DNT2Mi Network Terminal can be managed locally by using a service terminal or 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. Remote configuration reduces

the installation requirement to a minimum line, power connection and address configuration. Full configuration of the device can also take place from the central management site.

Technical Highlights

- ITU-T G.991.2 compliant
- TC-PAM line coding
- 2-wire / 4-wire operation
- nx64 kbit/s line rates
- 2 Mbit/s of aggregate bandwidth
- Remote powering
- Complies with Nokia NMS management system
- nx64 kbit/s services



Technical data

Product Codes

T65690.01
T65690.02

DNT2Mi-fp

2-wire
2-wire or 4-wire

Interfaces

Network Interface

Line code

Line rate

TC-PAM (Trellis Coded Pulse Amplitude Modulation)

192...2048 kbit/s (2-w)

384...2048 kbit/s (4-w)

Signal bandwidth

0...300 kHz (2 Mbit/s)

Line interface

2-wire or 4-wire

Line impedance

135 ohm

TX power (0 dB power backoff)

11.5 dBm @ 135 ohm (64...144 kbit/s)

13.5 dBm @ 135 ohm (192...1984 kbit/s)

14.5 dBm @ 135 ohm (2048...2304 kbit/s)

Equipment interface

G.704/2M (symmetric)

Transmission performance

Meets or exceeds G991.2

Operation and Management

Local management

Craft Terminal, Service Terminal,

Service Terminal Emulator

Remote management

Nokia NMS platform tools, Service Terminal,

Service Terminal Emulator

Power

Voltages

40...70 V (DC)

90...264 V (AC) with external AC/DC adapter

50...150 V (powered remotely)

Consumption

4.5 W (1-pair operation)

5.5 W (2-pair operation)

MTBF

75 years

Mechanical Construction

Dimensions

173 x 56 x 138 mm (H x W x D)

Weight

510 g

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

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