



DNT2M-G Mini Multiplexer & Interface Converter

The Nokia DNT2M-G network terminal provides highly efficient and cost-effective way to carry end-user data/voice application over the existing copper-wire local loop. The DNT2M-G fully integrates into Nokia's Access Transmission System family sharing common management tools and accessories.

Dynanet Copper Access Concept

DNT2M-G

The Nokia DNT2M-G is a 2 Mbit/s network terminal for E1 transport over twisted copper pairs. It provides 2.048 Mbit/s line interface and up to three interchangeable DTE interfaces.

The line interface of the DNT2M-G network terminal is according to ITU-T G.703/G.704 specification, and it can be used either unframed or framed (G.704) mode. The DNT2M-G also supports short and long haul modes, which allows the use of extended connections.

The DNT2M-G is manageable either using front panel keys/LCD or via Nokia's common network management system.

The DNT2M-G network terminals offer an open line interface that interworks with all Nokia transmission equipment (line cards, fiber products, radios) as well as with third party's 2M transmission products.

DNT2M-G sp

The DNT2M-Gs is a single port version of this product group. It offers interface converting functionality from network side towards customer DTE interface. The DNT2M-Gs takes incoming line signal and converts it to the one that is supported by the installed DTE interface card (V.28, V.11, V.35, X.21, G.704/2M, EIA-530 or Ethernet). The DNT2M-Gs can be used also in fractional E1 mode (nx64k payload) meaning that the user can select a suitable amount of timeslots from the line side and DNT2M-Gs transmits only these towards DTE.

DNT2M-G mp

The basic characteristics of the DNT2M-Gmp are similar to single port version. In addition to that, it gives end users the capability to have up to three independent DTE interfaces. The built-in TDM multiplexing functionality allows users to freely quantify suitable capacity for each interface to fulfill application requirements.

Technical Highlights

- *Compact mini node*
- *Managed Converter*
- *Up to three DTE interfaces*
- *Short/Long haul support*
- *Standard G.703 line*
- *Complies with the Nokia NMS network management platform*

Application Areas

The DNT2M-G network terminals can be used in a number of applications to convey diverse data interconnections. This includes both multiplexing and signal converting utilizing operators' accessible transmission networks. The DNT2M-G is ideal for operators that do not have own copper lines and they have to lease active 2M connections. Another rational usage is

interconnection of data terminals to the access nodes in the limited area (e.g. Business Park) where the length of the local loop is within the reach of this kind of equipment.

With the DNT2M-G network terminal and versatile DTE interface cards end-users data and voice connections as well as LAN interconnection and remote bridging can be realized in a efficient and cost-effective way.

Network Management

The DNT2M-G, as well as other Nokia DYNANET products, can be managed locally with the Nokia Service Terminal or a Windows-based node manager on a PC. Remote management is accomplished with any of the NMS platform tools. The management features comprise remote configuration, test activation, quality monitoring and alarm handling.

Technical Data

Product

Product codes	DNT2M-G sp	T65650.01, AC
	DNT2M-G sp	T65650.11, DC
	DNT2M-G mp	T65660.01, AC
	DNT2M-G mp	T65660.11, DC

Interfaces

Line Interface	Line connector	RJ45
	Line impedance	120 ohm, symm.
	Line code	HDB3
	Line rate	2.048 Mbit/s
	According to ITU-T G.703/G.704 recommendation	
Equipment interface	Number of interfaces:	1 in single port version (T65650)
	3 in multi port version	(T65660)
	DTE interface types:	G.703/64k, G.704/2M, V.11, V.28 V.35, X.21, EIA-530-A, Ethernet

Local management interface RJ45 (V.24/V.28)

Transmission performance According to ETS 100 461 and ITU-T G.703

Power	Power supply	90 - 264 V (AC) 20 - 75 V (DC)
	Power consumption	6 W (sp) 9 W (mp)

Mechanical construction	(H x W x D)	sp: 55 x 290 x 240 mm mp: 90 x 290 x 240 mm
	MTBF	> 134 years (T65650) > 73 years (T65660)

Environmental specification	Transport	ETSI ETS300019-1-2 class 2.3
	Storage	ETSI ETS300019-1-1 class 1.2
	Operation	ETSI ETS300019-1-3 class 3.2

Protection	Surge protection	ITU-T K21, EN55024
	Overall product safety	EN60950

Electromagnetic compatibility:	Generic emission, residential, commercial light industry	EN50081-1 (1992)
	Generic immunity, residential, commercial light industry	EN50082-1 (1997)
	Generic immunity, industry	EN50082-2 (1995)
	Emission, information technology equipment	EN55024 class B
	EMC requirements, telecommunication network equipment	ETSI ETS300386-2 (1997)