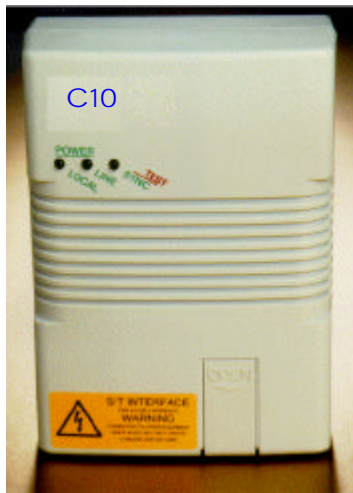
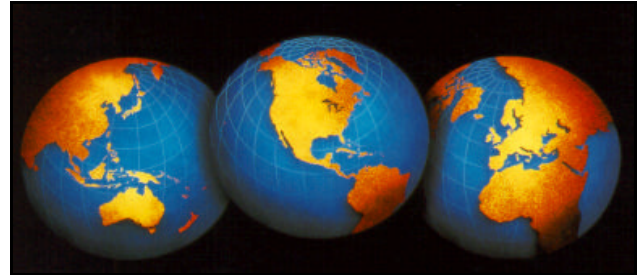


C10 Communications



PRODUCT DATA SHEET

NT1 ISDN Network Termination



GENERAL

C10 ISDN Network Termination NT1 terminates an ETSI ISDN Basic Access digital interface in SME, SOHO and residential environments. The NT1 provides ISDN Basic Rate 2B+D signal channel transmission, maintenance (D) channel including loopback test and performance supervision functions. Two S/T interface RJ45 ports facilitates interface with terminal equipments.

It is designed to perform ISDN physical layer functions. It is installed between the exchange U-interface and the customer premises S/T interface. It converts the 2-wire echo cancelled 2B1Q line code to a customer premises 4-wire pseudo-ternary encoded digital signal.

The design permits unobtrusive desk mounted or wall mounted installation.

APPLICATIONS

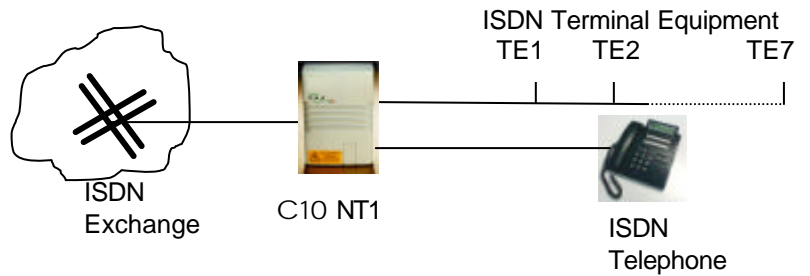
- Small to medium enterprise (SME), small office/home office (SOHO) and residential data, fax, multimedia, etc. capability.
- ISDN applications requiring S/T interface eg phones, fax machines, videoconferencing. Internet access.

FEATURES

- Universal ISDN termination device provides:
 - 1 x U interface (RJ45)
 - 2 x S/T interfaces (RJ45 S-Bus)
- Local / remote power supply supported.
- Restricted mode operation on loss of local power.
- Local power supports full functionality.
- LED indicators for use and diagnostics.
- Point -to-point or Point-to-Multipoint connections.
- S/T interface configurable (Short, extended, point to point).
- Selectable terminating resistance: 100 Ω , 50 Ω , none.
- Desk or wall mounting.
- Cold and warm start for U interface.
- S/T Polarity reversed during restricted mode.
- S/T power feeding from PS1 power source.
- U interface complies with ANSI T1.601, ETSI ETR080.
- LT or TE activation for both directions
- Meets ITU – T K.21 lightning protection for U interface.
- Meets ITU – T I.430 420mW power feeding under restricted mode.
- Selectable terminating resistance setting
- S/T bus configuration setting for short or extended passive bus.

TECHNICAL SPECIFICATIONS

NT1



Electrical

Network Interface:

ETSI ISDN Basic Rate Interface to	ETR 080
Line Code	2B1Q
Structure	2B+D
Line Rate	160 kbps
Line Termination Impedance	135 Ω
Physical Carrier	1 symmetrical cable pair
Loop Resistance	1250 Ω max
Line Attenuation	42 dB max @ 40 kHz
Signalling Characteristics	ANSI T1.601 (1992)

S/T Interface:

Complies with	ETS 300 012 ITU-T I.430
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Line Power Supply System:

Line Supply Voltage	32 to 115 V DC
Current	Less than 10 mA

Local Power Supply System:

AC Supply Voltage	100 - 264 V AC 50-60 Hz
Power	10 W
DC Voltage	40 V DC
DC Current	250 mA

Environmental

Temperature Range	0 to +50 °C
Humidity	0% to 95% RH
EMC	Complies with CISPR 22 Class B
Lightning	ITU – T K2.1

Physical

Material	Plastic high impact ABS
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Dimensions:

NT1	Height	40 mm
	Length	130 mm
	Width	91 mm
	Weight	0.24 kg

Plug Pak (Optional)	Height	70 mm
	Length	80 mm
	Width	50 mm
	Weight	0.17 kg

Connections:

U-Interface	RJ45 socket
S/T Interface	2 x RJ45 sockets

Visual Indication on NT1:

Line power available	Green LED
Local power activated	Green LED
SYNC / TEST	Green / Amber LED
NOT synchronised:	Green flashing fast
U synchronised, S/T not synchronised:	Green flashing slowly
U and S/T synchronised:	Green steady on
TEST:	Amber

Represented by:

C10 products are subject to continuous development and improvement and we reserve the right to change specifications without notice.

C10 Communications

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