

ISDN NT1

January 2003

A Performance - Proven NT1 for Your ISDN Connection

THE NT-300 IS YOUR STAND-ALONE ISDN NETWORK TERMINATION (NT1) UNIT WHICH PROVIDES THE 2B1Q BASIC RATE INTERFACE NEEDED BETWEEN THE ISDN NETWORK LINE AND THE SUBSCRIBER TERMINAL EQUIPMENT. **Y**OU GET TWO 64 KBPS B-CHANNELS FOR SIMULTANEOUS VOICE/DATA TRANSMISSION AND ONE 16 KBPS D-CHANNEL FOR NETWORK SIGNAL TRANSMISSION. IDEAL FOR REMOTE BRANCH OFFICES AND HOME OFFICES. **T**HE NT-300 UNIT ALSO FEATURES AN INTERNAL POWER SUPPLY ENCLOSED IN A COMPACT AND LIGHTWEIGHT HOUSING SUITABLE FOR DESKTOP OR WALL-MOUNT INSTALLATION.

FEATURES

- ✧ Conforms to ANSI and ETSI network and terminal interfaces
- ✧ Compatible with 2B1Q basic rate services and standard ISDN terminals
- ✧ Provides 2B+D ISDN basic rate services
- ✧ Provides point-to-point and point-to-multipoint connections
- ✧ Compact unit with built-in power supply
- ✧ Three LED status indicators
- ✧ 50Ω, 100Ω, and un-terminated impedance selectable
- ✧ Provides lightning surge protection for network, terminal interface, and AC power



NT-300

SPECIFICATIONS

NETWORK (U-INTERFACE)

- Line Code
 - 2B1Q per ETR 080 Annex A
 - ETSI TS 101 080
- Transmission Method
 - 2-Wire Duplex Transmission with Echo Cancellation
- Data Rate
 - 160 Kbps (2B1Q)
- Output Amplitude
 - 2.5V Per Peak Nominal
- Connectors
 - One RJ-45
 - One 2-Contact Clip Type Terminal

TERMINAL (S/T-INTERFACE)

- Line Code
 - AMI Modified, per ITU I.430
 - ETS 300 012
- Transmission Method
 - 4-Wire Duplex Transmission
- Channel Structure
 - 2B+D+Synchronization+Service Channel
- Data Rate
 - 192 Kbps (2B+D)
- Output Amplitude
 - $\pm 0.75V$ per Peak Nominal
- Connectors
 - Two RJ-45
 - One Clip-Type
- Line Configuration
 - Point-to-point
 - Point-to-multipoint

REGULATORY

- ETS 300 047
- EN 60950
- EN 55022
- EN 61000
- K.21

LED INDICATORS

- U and S/T Interface status lamp
- AC Power Status Lamp
- Line Power Status Lamp

POWER ADAPTER

- Built-in Module
- Input Voltage
 - 110Vac/60Hz
 - 220Vac~240Vac/50Hz

POWER FEEDING

- Input Voltage from Switches
 - 28Vdc - 118Vdc
- Feeding Power to S/T
 - 4.5W, 34Vdc – 42Vdc

DIP SWITCH

- Termination Resistors
 - 100 Ω / 50 Ω / Un-terminated
- Wiring Timing Mode
 - Fixed/Adaptive Timing Mode
- LED Display Function
 - Active/De-active

ENVIRONMENTAL

- Operating Temperature
 - $-5^{\circ}C \sim 45^{\circ}C$ ($23^{\circ}F \sim 113^{\circ}F$)
- Storage Temperature
 - $-40^{\circ}C \sim 60^{\circ}C$ ($-40^{\circ}F \sim 140^{\circ}F$)
- Operating Humidity
 - Up to 90%, Non-condensing
- Storage Humidity
 - Up to 95%, Non-condensing

PHYSICAL

- Dimension
 - 104mm (W) x 159mm (D) x 60mm (H)