

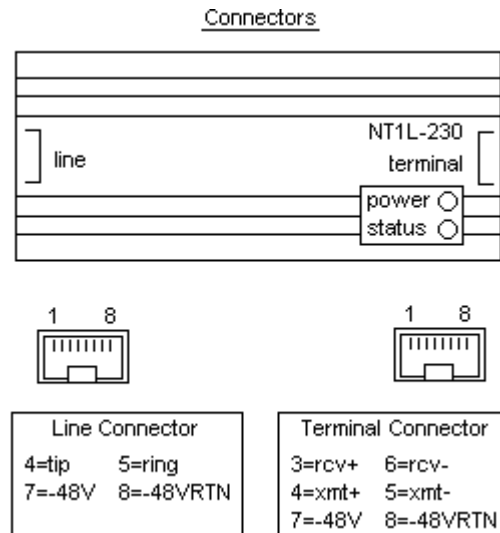
NT1L-230 Installation & Mounting Instructions

Introduction

This information is to be used in the installation of the circuit pack version of the AT&T 2B1Q NT1 (NT1L-230). Some typical installation examples are given. Details and other possible installation configurations can be found in the ISDN Customer Premises Planning Guide (AT&T Practice 533-700-100).

Installation Restrictions and warnings

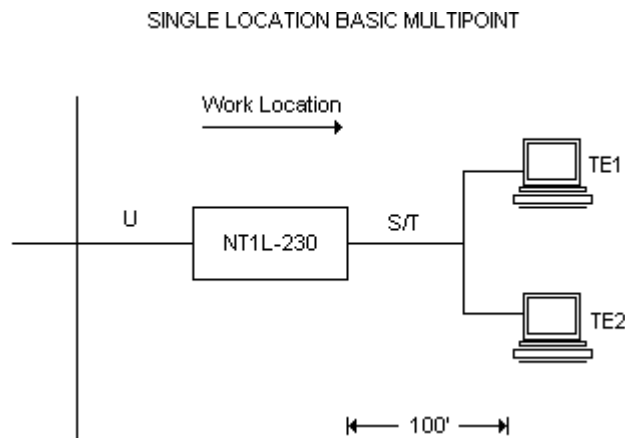
- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch un-insulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone wires.
- For powering use only a Telecommunication Level Power Source.
- Do not install the NT1L-230 within 12" of a heat source.



Wiring

Wiring Configuration

The NT1L-230 supports the point to multipoint configuration on a short passive bus at the S/T -interface. Both the receiver and the transmitter of the NT1L-230 are terminated internally with 50-ohm termination resistors, used for one end termination of the S/T -interface bus at relatively short cable lengths between NT1 and TE.

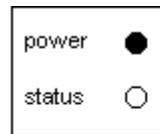


Note: Distances specified above are for 24-gauge inside wiring cable and two terminals. These distances may vary for other cable gauges and different number of terminals. For additional details refer to the AT&T Practice 533-700-100.

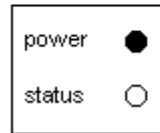
Installation Check

Connect the NT1 to a power supply and an active 2-wire ISDN line. The normal power up procedure is as follows:

- Switch on the external power supply.
- The POWER indicator must go ON.
- After an activation period of max. 15 seconds, a properly functioning NT1L-230 will provide one of the following status displays:



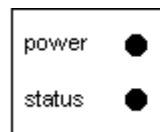
No U line



slow
flash (1 Hz)

**Working U line, no terminal
connected**

- Connect the NT1 to a terminal.
- A properly functioning NT1L-230 will provide the following status display:



**Working U line and at least one
working terminal connected**

See the following diagram for status display other than those shown above for the stated condition.

NT1 Status Indication

The two indicators of the NT1L-230 provide the following status information:

power	status	
○	○	No input power
●	⊘ ¹	Failed activation after power up
●	○	Deactivated
●	⊘ ²	S/T-interface error
●	●	Active
●	⊘ ³	Pending activation/U-interface error/test mode For a proper diagnosis of this state, disconnect the terminal
⊘	⊗	Input power too low or reversed polarity

○	off	⊘	flash	1	fast flash (8 Hz) for 0,5 sec
●	on			2	slow flash (1 Hz)
⊗	don't care			3	fast flash (8 Hz)

Any status display other than those shown above indicates improper NT1 operation. Refer to AT&T Practice 533-700-100 for more information.

Powering

The NT1L-230 must be powered from 34 to 56.5 VDC provided by a separate Telecommunication Level Power Source, normally connected to pin 7 and pin 8 of the LINE jack.

ISDN terminals connected to the terminal jack can be powered from the same supply by:

- Power feed through from LINE to TERMINAL jack pin 7 (-) and pin 8 (+), max. 20 W.
- Phantom power feed over the transmission wires pins 3/6 (+) and pins 4/5(-), max. 4 W.

An example for power wiring using an AT&T power supply is:

