

NT1P-210 Installation & Mounting Instructions

Introduction

This information is to be used in the installation of the circuit pack version of the AT&T 2B1Q NT1 (NT1P-210). 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

- The circuit pack contains electrostatic sensitive devices. During the installation process precautions should be taken to avoid damage caused by electrostatic discharge.
- The NT1P-210 should only be installed in restricted access areas in accordance with articles 110-16, 110-17, and 110-18 of the National Electric Code, ANSI/NFPA No. 70.

General

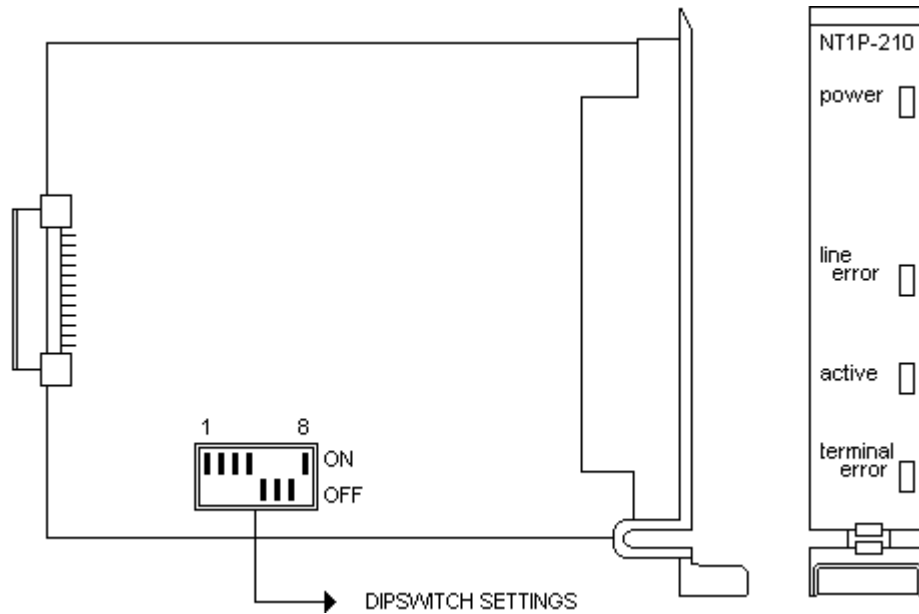
- The NT1P-210 should only be installed in combination with module frame NT1M-210 (Cc. 406404038).
- The NT1M-210 module frame is available separately.
- Before inserting the NT1P-210 into the module frame check that the dipswitch settings are in accordance with the premises wiring configuration (see *Wiring Configurations* for examples).
- The NT1P-210 circuit pack can be inserted and removed from an operational NT1M-210 without affecting the performance of the other units.
- 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.

Installation

Insertion: Slide the NT1P-210 into the mounting frame until it locks.

Removal: Lift lever and pull back on the NT1P-210.

Connectors and Switches



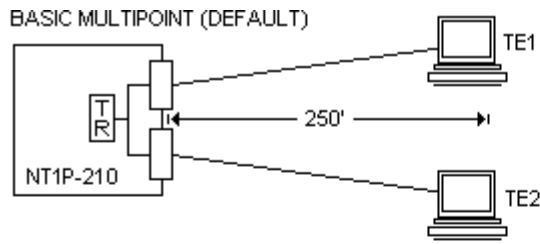
SWITCH	OFF FUNCTION	ON FUNCTION
1, 2	No termination	Termination present
3, 4	100 Ohm termination	50 Ohm termination
5, 6, 7	not used	
8	Point To Point (PTP)	Passive Bus (PB)

Default setting is for 50 Ohm and Passive Bus. This option is compatible with "Basic Multipoint" configurations (see *Wiring Configurations*).

Wiring Configurations

Switch Settings

The dipswitches on the NT1P-210 must match the premises wiring between the NT1 and terminal(s). The following figures are examples of typical wiring configurations. Dipswitch settings are shown for these examples. For more details and alternative wiring configurations refer to AT&T Practice 533-700-100.

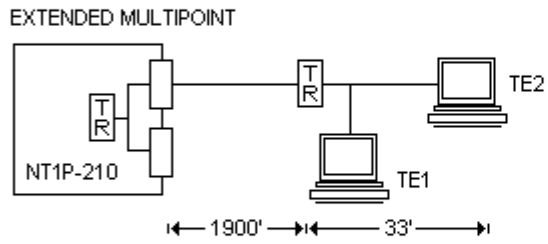


1	2	3	4	5	6	7	8
■	■	■	■	■	■	■	■

ON
OFF

S1 AND S2 = TERMINATION ON
S3 AND S4 = TR IS 50 OHM
S8 (PB) = FIXED TIMING

TR = 50 OHM

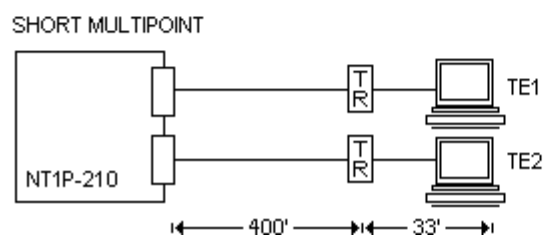


1	2	3	4	5	6	7	8
■	■	■	■	■	■	■	■

ON
OFF

S1 AND S2 = TERMINATION ON
S3 AND S4 = TR IS 100 OHM
S8 (PTP) = ADAPTIVE TIMING

TR = 100 OHM



1	2	3	4	5	6	7	8
■	■	■	■	■	■	■	■

ON
OFF

S1 AND S2 = TERMINATION OFF
S3 AND S4 = NOT APPLICABLE
S8 (PB) = FIXED TIMING

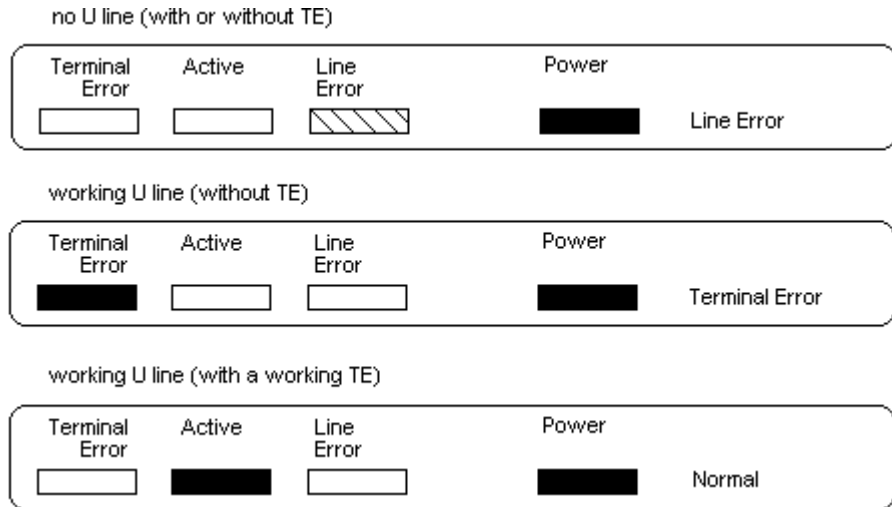
TR = 100 OHM

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 & Diagnostics

When the NT1P-210 is completely installed, the following check should be made to ensure that the NT1P-210 is operating normally:

1. After powering up a self-test will be automatically initiated, causing all indicators to light up for about 1 second.
2. After an activation period of max. 15 seconds, a properly functioning NT1P-210 will provide one of the following status displays:



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

NT1 Status Indication

The four NT1 indicators, when taken together, provide the following status information:

