TONE COMMANDER®

NT1U-220TC
Installation Instructions

The Tone Commander NT1U-220TC converts an ANSI standard 2B1Q ISDN U-interface from the telco Central Office to an S/T interface to connect to local customer terminal equipment. Both point-to-point and multipoint ISDN terminal equipment configurations are supported.

The NT1U-220TC complies with ANSI T1.601-1992 and T1.605-1991 interface standards, including SC1 and SC2 subchannels, and is compatible with National-1 and National-2 ISDN standards. In addition, it may be used as a drop-in replacement for the AT&T NT1U-220, and is compatible with the Tone Commander NT1-220 Rack and the AT&T NT1M-200 rack.

Specifications

NT1U-220TC

Operating Voltage	34 — 56.5 VDC
Power Consumption	625 mW typical
Physical Dimensions	6.8″ H x 4.4″ W x 1.1″ D
Weight	0.7 lb.
Operating Temperature	0° — 50° C (32° —122° F)
Humidity	5% to 95%, non-condensing

Optional Desktop Power Supply (P/N 901034)

Power Requirements	120 VAC, 60 Hz, 15 W
Power Output	0.6 A @42 VDC min.
Short Circuit Protection	self-resetting
Physical Dimensions	2.2″ H x 2.6″ W x 3.3″ D
Weight	2.0 lbs.

⚠ Important Safety Instructions

- 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 uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone wires.
- When powering the NT1 through the Power connector, use only the Tone Commander Desktop Power Supply (P/N 901034-01).
- Do not mount the NT1U-220TC within 12″ of a heat source.

FCC Requirements

The Tone Commander NT1U-220TC has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guaranty that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Where it can be done safely, re-orient the receiving television or radio antenna.
- To the extent possible, increase the separation between the telephone equipment and the television, radio, or other equipment.
- If your telephone equipment runs on AC power, plug your product into an AC outlet that is not on the same circuit as the one used by your radio or television receiver.

Termination Switch

The termination switch is located on the back of the NT1. It must be set prior to mounting the NT1. Available settings are OFF, 100Ω, and 50Ω.
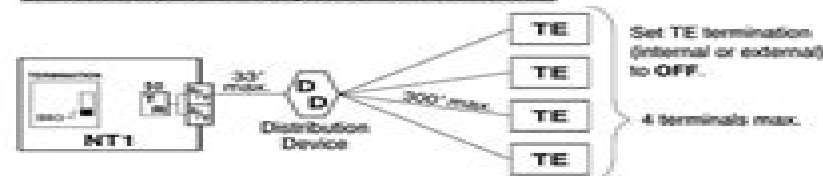
Set the termination switch to match the premises wiring between the NT1 and the terminals. Several typical wiring configurations are shown below, with the appropriate termination switch setting.

Fixed or adaptive timing selection is not required.
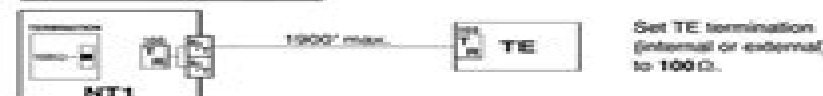
Basic Multipoint

Set TE termination (internal or external) to OFF.

Basic Multipoint using Distribution Device

Set TE termination (internal or external) to OFF.

4 terminals max.

Short Multipoint

Set TE termination (internal or external) to 100Ω.

Extended Point-to-Point

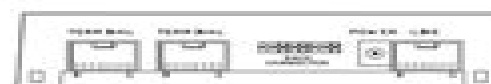Set TE termination (internal or external) to 100Ω.

The use of Category 3 or better unshielded twisted pair cable with T568A or T568B connector wiring is recommended. Distances shown are maximum for 24-gauge wiring cable, and may vary for other cable types.

Connectors

Two terminal connectors are provided for convenient terminal installation; both are parallel connected to the S/T interface. Pins 7 and 8 of the Terminal and Line connectors (power pins) also have metallic interconnection.

Tone Commander Manual

United States. War Department

Tone Commander Manual:

Manual of Military Training James Alfred Moss,John Walton Lang,1921 *Manual of Military Training* James A. Moss,2020-08-05 Reproduction of the original Manual of Military Training by James A Moss Manual for the Guidance of the Grand Army of the Republic Grand Army of the Republic,1881 **F-111 Aardvark Pilot's Flight Operating Manual** United States Air Force,2007-08-01 En instruktionsbog Flight Manual for F 111 Aardvark **Field Manual** United States. Department of the Army,1962 **Operator's and Organizational Maintenance Manual** ,1992 **General Support Depot Maintenance Manual** ,1991 **Operator's Manual for Multiple Integrated Laser Engagement System (MILES), Simulator System, Firing, Laser: M82, M1 Abrams Tank, NSN 1265-01-137-7697** ,1983 Operator's Manual ,1992 Landing Party Manual United States. Office of the Chief of Naval Operations,1960 Manual for Commanders of Infantry Platoons France. Ministère de la guerre,1917 **Manual of garrison artillery 1887. [Continued as] Garrison artillery drill [afterw.] training. [With] Amendments** War office,1905 *The Quote Manual* Robert G. Moscatelli,2005-07-15 THE TROUBLE WITH QUOTE BOOKS to paraphrase something Napoleon once said about books in general is that in them one has to read so many bad quotes to find some that are really good Most authors of quote books include in their pages numerous forgettable quotes among the few that are really worth remembering Not so with this quote book This book is an unpadded collection of carefully selected quotes Each quote is guaranteed to cause the reader to think learn grow or in some cases laugh Open this book to any page and you will find selected gems of the spoken and written word that you will use again and again It is a comprehensive resource that will give you an appropriate quote for almost any subject you want to address in your speaking or writing Bob Moscatelli is a 1958 graduate of West Point He accumulated the quotes in this book over a fifty year period which included twenty six years as a career Army officer eight as a financial programmer and four in politics He is also the author of Too Soon Old Too Late Smart a book on the fundamentals of personal finance This book is an ideal gift for readers of all ages Buy a copy for yourself and for everyone you care about who will appreciate a useful gift that will have a beneficial influence on his or her life for years to come **Selective Service Manual** Alexander L. James,1917 **Manual for Commanders of Infantry Platoons** ,1917 *Army Air Forces Manual* United States. Army Air Forces, **Teleconnect** ,1983 **Technical Manual** United States. War Department,1940 **Field Manuals** United States. War Department,1977 Operator's Manual for Multiple Integrated Laser Engagement System (MILES), Simulator System, Firing Laser, M83 (NSN 1265-01-158-4560) for M2/M3 Fighting Vehicles ,1988

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