



The Affordable  
ISDN Telephone  
Solution.

# The Power of ISDN at Every Desktop.

Now you can afford the advanced technology of ISDN (Integrated Services Digital Network) at every desktop. Tone Commander's 6210 and 6220 ISDN phones set new standards for high quality and full-featured performance at an exceptional price.

10 and 20 button telephones are available in either S/T or U line configurations and come loaded with all the advanced features you'd expect to find in a top-of-the-line set.

## **SIMPLE INSTALLATION.**

The 6210 and 6220 support automatic switch detection, National ISDN Auto-SPID and Parameter Downloading for true Plug & Play operation. These telephones are quick to install, easy to use, and feature a reversible base and tilt display for convenient desktop or wall mount installation. A free Windows-based Setup Wizard is available that simplifies planning and ordering ISDN service and provides integrated label printing for the phones.

## **EASY ACCESS TO ADVANCED ISDN FEATURES.**

Tone Commander ISDN phones have an intuitive user interface, making it easy to control even the most advanced capabilities of the ISDN network. With these phones, you will enjoy the sound quality, quick connections, and sophisticated electronic key system features that ISDN service is famous for.

Our products are designed to provide uniform operation over all ISDN switch types, eliminating the need for special user instruction or cross training programs.



**6220**  
20 Line  
ISDN Telephone

## **NEVER OBSOLETE.**

The phones utilize the latest flash memory technology, making it easy to install new features and enhancements without ever removing the phone from service. With Tone Commander products and ISDN technology, your telephone system can always be kept up to date; with Centrex service, you will never have to worry about outgrowing your phone system.



**6210**  
10 Line  
ISDN Telephone

## **MORE THAN JUST PHONES.**

Tone Commander makes a complete family of ISDN telephones, attendant consoles, and NT1 network terminations to fit any application, from a single telecommuter to large Centrex installations. We have been making products to meet the stringent requirements of telephone companies for over 25 years. Our products are designed and manufactured in the USA.

# 6210 / 6220 Features

## Plug & Play Installation

Automatic switch type detection, automated SPID entry, and parameter downloading are supported for simplified Plug & Play installation. The user can manually enter setup parameters if network parameter downloading is not available.

## Works with All ISDN Versions

Each model supports all versions of National ISDN and Lucent 5ESS Custom ISDN without firmware or hardware modifications. Compatible with Lucent 5ESS, Nortel DMS-100, Siemens EWSD, AG Communication Systems GTD-5 networks, and Lucent Definity PABXs. User operation is the same on all network platforms.

## Call Identification

The call display indicates call state, caller ID information and elapsed time during calls. The identity of any call can be previewed at any time (even while on another call) to identify a call before it is answered.

## Tilt Display

The 2 line x 24 character wide viewing angle, high contrast LCD display has variable contrast and adjustable tilt for optimum viewing in any environment.

## Message Waiting Indication

A dedicated, easy-to-see message waiting lamp is included on all models.

## Multi-function Keys

Ten (6210) or twenty (6220) keys with indicators can be assigned for call appearances, feature activation, or one-touch speed dialing. Feature keys can be remapped to match any network configuration. Local and remote status is clearly indicated on highly visible multicolor LEDs.

## Special Function Keys

Dedicated keys are provided for Conference, Transfer, Drop, Hold, Speakerphone, Mute, and Volume functions. Four dedicated menu control keys and four softkeys are provided to conveniently navigate display-oriented menus and select context-based options.

## Call Log

A call log maintains a running list of the last thirty answered and unanswered calls, with the caller ID, time, date, and duration of each call. Softkey autodialing allows easy callbacks. Entry into the call log may be password protected.

## Call Preference Options

You can specify whether a ringing or idle line appearance is automatically selected when the handset is taken off-hook, or the speakerphone is activated. Off-hook call preference may be set to Ringing, Idle, or None.

## Last Number Redial

A soft key redials the last number dialed on the dial pad or with a speed dial key.

## Speed Dial

Spare keys can be programmed with up to 24 digits for quick one-key dialing. Network feature activators and "smart" pauses can be used for easy access to voice mail, directed call pickups and call forwarding.

## Call Directory

A 36 entry softkey-based speed dialing system stores frequently-dialed names and numbers.

## Direct Station Selection

Call appearance keys can be programmed to show busy line status on shared call appearances and provide one-button direct station selection for secretarial answering. The 6210/6220 automatically adjusts to answer a call appearance, or autodial the selected station, depending on call state. No special network setup is required for this feature.

## Voice Announce

Provides hands-free voice announcing of screened calls or station-level paging when the phone is on-hook.

## Flexible Ringing Options

One of eight distinct ringing tones can be selected for each terminal, to uniquely identify a ringing station in an environment with multiple terminals. Distinctive ringing cadences based upon network alerting patterns are supported. When off hook, ringing is muted, with selectable continuous or single burst ringing.

## Ring Control for Shared Lines

Shared call appearances can be individually programmed on the phone for normal ringing, delayed ringing, or no ringing.

## DTMF Support for Non-ISDN Applications

Audible DTMF signaling allows access to voice mail, auto attendant and other services.

## Integrated Speakerphone

All models include a built-in speakerphone with volume controls and a microphone Mute key. The speakerphone allows two-way hands-free conversation and on-hook dialing.

## Headset Operation

When a headset is used, hook switch operation can be disabled. Transmit and receive characteristics can be customized to match any headset.

## Date and Time Display

Time and date are displayed when the phone is idle. A call timer shows the elapsed time for calls in progress.

## U or S/T Interface

U interface models have a built-in ISDN Network Termination (NT1) and provide a powered S/T output to connect to other ISDN equipment. S/T interface models connect to an external NT1, such as the Tone Commander NT1U-220TC, for multipoint applications.

## Desktop or Wall Mounting

A reversible base allows easy wall mounting without an adapter kit. The tilt display provides optimal viewing for any application.

## Local Inspect

Call appearances and network feature keys can be inspected to verify the phone configuration after a network parameter download or user setup.

## Easy Firmware Updates

Software can be easily updated to the latest version with a plug-in loader module or toll-free data call to Tone Commander's download server (requires circuit-switched data service).

## Windows-based Setup Wizard

A question-and-answer interface guides you through the process of planning an installation, ordering service, and labeling the set.



# Specifications & Ordering Information

## Call Appearance Capacities

6210T/U: 10 call appearances  
6220T/U: 20 call appearances

## Cabling

6210/6220T: 2 pairs (S/T), 1 pair (power),  
8 position modular jack  
6210/6220U: 1 pair (U), 1 pair (power),  
8 position modular jack (RJ49C)

## Standards Compliance

ANSI T1.601-1992 and T1.605-1991  
National ISDN, Lucent 5ESS Custom ISDN, Lucent Definity PABX  
FCC Part 15  
FCC Part 68  
Hearing Aid Compatible  
FCC Part 68 Volume Control Requirements  
UL, cUL 1950

## Power Requirements

PS1 or PS2  
24 to 56.5 VDC @ 1 W idle, 2 W max. (excluding wiring losses)

## Physical Dimensions

8.25" W x 8.5" D x 4.75" H, including handset

## Weight

2.5 lbs.

## Colors

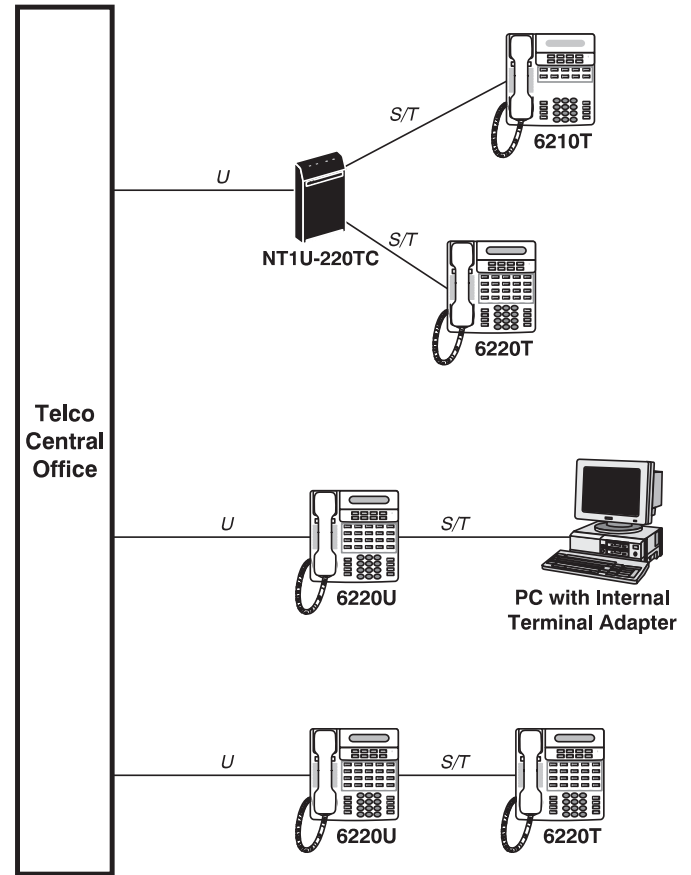
Black, Off-White

## Environmental

Operating temperature: 32° to 104° F (0° to 40°C)  
Storage temperature: 32° to 122° F (0° to 50°C)  
Humidity: 5% to 95% non-condensing

## Made in USA

## Typical Installation



## Ordering Information

### Model #

6210T  
6210U  
6220T  
6220U  
901042  
NT1U-220TC  
901034  
NT1-220 Rack  
NT1-220 Expansion Rack  
  
NT1U-223TC  
NT1-296 Rack  
NT1-200 Battery Backup  
NT1-200 Add-on Battery

### Description

10 Line Telephone, S/T Interface.  
10 Line Telephone, U Interface (Built-in NT1; requires external power supply).  
20 Line Telephone, S/T Interface.  
20 Line Telephone, U Interface (Built-in NT1; requires external power supply).  
Standalone Power Supply for U Interface phones.  
Desktop or Rack-mount ISDN Network Termination; supports one or two phones.  
Stand-alone Power Supply for one NT1U-220TC.  
Rack with Power Supply for 12 NT1U-220TC units; supports up to 24 phones.  
Rack without power for 12 additional NT1U-220TC units; supports up to 24 additional 6210T or 6220T phones, powered by NT1-220 Rack (maximum one Expansion Rack per NT1-220 Rack).  
Triple NT1 circuit card.  
High-density rack with power supply for 16 NT1U-223TC cards; supports up to 96 phones.  
Uninterruptible Battery Backup for NT1-220 or NT1-296 Rack.  
Additional Battery to double the capacity of NT1-200 Battery Backup.

**tone  
commander®**

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