



# TELECENTER® 1100

COMMUNICATIONS SYSTEM COMPONENTS

2524  
Intercom Controller



## FEATURES

- Direct Interface to Existing Telephone Systems
- Intercom, Paging, Tone Distribution, and Audio Program Distribution Controlled Directly from a Telephone
- Priority Paging Override
- Audio Program Distribution Via Switchbanks or Administrative Telephone Dial-Up Function
- Automatic Music on Class Change
- Built-In Full Feature Master Clock
- Corrects Most Types of Secondary Clocks
- Non-Volatile User-Configurable Memory
- Advanced Microcomputer Design
- Serial Data Port Connection for Configuration and Diagnostics
- Completely Self-Contained Electronics
- Upgradable to Provide 32 Global Telephonic Links

## SPECIFICATIONS

**Power Required:** 105 - 130V AC @17 watts  
210 - 230V AC @17 watts

**Environmental Parameters:**

**Temperature:** 32°F (0°C) to 90°F (32°C)  
**Relative Humidity:** 0 to 85%

**System Capacity:**

**Telephone Ports:** Two—one via CTL1 Telephone Interface;  
one via PLA1 Priority Line Adapter

**Room Stations:** 500 (speakers, call switches, staff phones in any combination)

**Audio Channels:** One Intercom/Paging Channel

**Intercom Amplifier:**

**System Capacity:** One amplifier (TC4160)  
**Power Output:** 12 watts @25V rms  
**Controls:** VOX

**LED Digit Displays:** Mode, Time (Hours and Minutes), Schedule

**LED Indicators:** AM, PM, Zones/Outputs (8), Days (7), Music, Clock, Communication

**Front Panel Keyboard:** 18 keys (0 - 9, Enter, Clear, Erase Function, Clock/Comm, Manual)

**Master Clock Capacity:**

350 events  
Eight Zones w/ Relays  
Eight Schedules  
100 Holidays  
Quartz Crystal Time Base  
Corrects all types of digital and analog secondary clocks  
Corrects up to three different secondary clock systems simultaneously

**Zone Relay Ratings:** 5 amps @24V DC  
1 amp @20V AC

**Wiring Requirements:**

**Telephone Port:** Twisted pair

**Digital Display (Data):** Shielded pair

**Classrooms:** Four conductors (two twisted pairs or three conductor shielded cables); (includes speaker, call switches and staff phone)

**Mounting:**

**Rack Mount:** Mounts in EIA standard 19" equipment rack

**Additional Data:** 5 year Lithium for time keeping

Serial data port

System configuration/programming

System diagnostics (on or off-site)

System activity logging

**Dimensions:**

19" (48.3 cm) wide, 3.5" (8.8 cm) high,

9.5" (24.1 cm) deep (including rear conduit box)

**Shipping Weight:** 9 lbs. (4.1 kg)

**Associated Equipment:**

CTL1 Telephone Interface Module

PLA1 Priority Line Adapter

Rauland Telecenter® Speaker Control Modules

Rauland Director® Series Intercom and Program Control Panels

TC4160 Intercom Amplifier

Rauland DAX and FAX Series Amplifiers

Rauland Personal Alert System

Rauland Digital Secondary Clocks

Rauland Analog Secondary Clocks

Rauland AC and DC Output Buffer Modules

### DESCRIPTION

The Rauland 2524 Intercom Controller is the microcomputer based "heart" of the Telecenter<sup>®</sup> 1100 System. It provides the basic control equipment for the system including memory, logic, and control circuitry. The unit provides control of the switching circuitry for the systems telephone interface and the 500-room station capacity.

The 2524 controls the interface to an external telephone or telephone system which provides an audio channel for intercom, paging, tone signaling, and audio program distribution, as well as staff telephone communications.

The Telecenter 1100 telephone interface is accomplished using the associated CTL1 Telephone Interface Module. The interface is designed to permit connection of an administrative telephone or direct connection to a trunk port of a separate EKSU or PABX. The system provides dial tone to the user and accepts and decodes standard DTMF dialing.

The Telecenter 1100 accommodates room stations on Telecenter Speaker Control Assemblies. Room station positions can support any combination of speaker; call switches (Normal, Emergency, Privacy); or non-dialing staff telephone.

Call-ins from room stations as well as a variety of helpful user prompts may be displayed on an associated digital display.

The Telecenter 1100 provides paging capabilities directly from a user's telephone. All Page as well as Zone Paging into eight separate paging zones is provided.

The Telecenter 1100 can also provide audio program distribution. Control of the distribution may take place via direct select switchbanks or via a dial-up function on an administrative telephone. The 2524 can also perform an automatic "Music on Class Change" function.

The 2524 provides a powerful, full feature, built-in master clock. The clock function will store up to 350 events (such as ringing bells and controlling lights) and up to eight schedules.

Any combination of the system's eight zones may be independently controlled for any event. Manual control of the system's zones is also provided on the 2524 front panel. Up to 100 holidays may be programmed. When programmed the system will automatically adjust for daylight saving time changes.

The 2524 will correct virtually any type of secondary clock. Up to three different types of clock systems may be corrected simultaneously.

The 2524 includes the system's CPU and the system's serial data port, all of the hardware for the system's master clock including eight zone relays for switching and secondary clock correction, and sensing as well as the basic audio switching and control.

The TC1100 is modular in design, a feature which greatly facilitates troubleshooting, diagnostics, and remedial service. The 2524 provides a serial data port which may be used for direct connection to a computer or via a modem to an off-site computer for configuration and diagnostics.

Specifications subject to change without notice.

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