

Telephone Interface and Audio Signal Generator Module

- > Half-duplex speakerphone with Caller ID
- > Telephone paging for multiroom audio systems
- > Custom door chime, ringer, and alarm sounds
- > Remote control access from any phone
- > Personalized voice prompts
- > Easy setup via phone or Menu Builder software
- > Single-space, half-width 19-inch rack-mountable^[1]
- > Under-table mountable^[1]
- > Powered via Cresnet®

The CEN-TIA provides a telephone audio and DTMF control interface with audio signal generation capabilities and other useful features for home automation, multiroom audio distribution, and other control system applications.

Speakerphone

The CEN-TIA connects directly to a POTS phone line, or to your phone system's analog extension port, to provide a single-line, half-duplex, push-to-talk speakerphone interface for legacy Crestron® touch screens with built-in microphones, speakers, and analog audio I/O connections. Integrated with the **C2N-IADS30X24** Intercom Distribution Switcher, the CEN-TIA can enable speakerphone capabilities for multiple touch screens throughout the house.

Caller ID

See who's calling before you answer by displaying Caller ID information on every touch screen. Manage missed calls easily with complete caller information and management options displayed on the touch screen.

Telephone Paging

The CEN-TIA adds telephone paging capability to any Crestron Home® (CH) audio distribution system, allowing sophisticated zone-paging from any telephone to room speakers throughout the house.

Audio Signal Generator

Loaded with your own custom MP3 audio files, the CEN-TIA can be used to generate high-quality door chimes and alarm sounds, and even create unique telephone ring tones to identify known callers based on Caller ID. With memory capacity expandable up to 1 GB, the CEN-TIA can easily support several hours of full-frequency stereo audio files.

DTMF Control Interface

Use your mobile phone to remotely turn on lights, adjust air conditioning, and arm/disarm security. Using standard DTMF touch tones, the CEN-TIA affords telephone keypad control of any automation system function, providing a prompt-driven user-interface that's simple to use. The Menu Builder software tool makes it easy to set up a menu of friendly voice commands using the preloaded voice prompts, or your own custom audio files, for personalized remote control of your home or office. The CEN-TIA can also dial out to your mobile phone to alert you to an alarm condition or other system event.



SPECIFICATIONS

Audio

Frequency Response (@ AUDIO OUT):

- 20 Hz to 20 kHz ± 0.5 dB from MP3 file or AUDIO IN sources;
- 300 Hz to 3 KHz -3 dB from PHONE LINE source;
- 300 Hz to 3 KHz -3 dB from WAV file messages

Frequency Response (PHONE LINE): 300 Hz to 3 KHz -3 dB

Signal/Noise Ratio: 94 dB A-weighted at AUDIO OUT

THD + N: 0.05% A-weighted at AUDIO OUT

MP3 File Support: 44.1 kHz sampling rate, up to 128 Kb/s bit rate

WAV File Support: 16-bit PCM, mono, 8 kHz sampling rate

Memory

Multimedia Memory Card: 32 MB included, 1 GB maximum; stores audio files

Communications

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP

Phone: POTS (RJ11 wired interface) supporting DTMF & Caller ID

Cresnet®: Cresnet slave mode

USB: USB device port for computer console (setup)

Connectors

PHONE LINE: 6-pin RJ11 female;

Connects to single-line POTS telephone line or analog extension port

LAN: (1) 8-pin RJ45, female;

10Base-T/100Base-TX Ethernet port

MEMORY: (1) MMC compatible card slot;

Accepts Multimedia memory card up to 1 GB (32 MB included)

CEN-TIA Telephone Interface and Audio Signal Generator Module

AUDIO IN: (1) 5-pin 3.5 mm detachable terminal block;
Balanced/unbalanced stereo line-level audio input;
Input Impedance: 20k Ohms balanced, 10k Ohms unbalanced;
Maximum Input Level: 4 Vrms balanced, 2 Vrms unbalanced

AUDIO OUT: (1) 5-pin 3.5 mm detachable terminal block;
Balanced/unbalanced stereo line-level audio output;
Output Impedance: 200 Ohms balanced; 100 Ohms unbalanced;
Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced

NET: (1) 4-pin 3.5 mm detachable terminal block;
Cresnet slave port, connects to Cresnet control network

G: (1) 6-32 screw, chassis ground lug

USB (front): (1) USB Type B female;
USB 1.1 computer console port;
For setup only

Controls & Indicators

PWR: (1) green LED, indicates 24 Volts DC power supplied from Cresnet control network

NET: (1) yellow LED indicates communication with Cresnet system

ACT: (1) red LED, indicates internal processor activity

OFF HOOK: (1) miniature pushbutton and (1) green LED, initiates and indicates “off-hook” connection to phone line

LAN LINK: (1) green LED, indicates Ethernet link status

LAN ACT: (1) yellow LED, indicates Ethernet activity

LAN (rear): (1) green and (1) amber LEDs, green indicates Ethernet link status, amber indicates Ethernet activity

SETUP (rear): (1) miniature pushbutton and (1) red LED, used for touch-settable ID (TSID)

Power Requirements

Cresnet Power Usage: 7 Watts (0.3 Amp @ 24 Volts DC)

Environmental

Temperature: 32° to 122° F (0° to 50° C)

Humidity: 10% to 90% RH (non-condensing)

Enclosure

Chassis: Steel, black finish

Front Panel: Metal, black finish with polycarbonate label overlay

Mounting: Freestanding, under-table mountable, or 1RU half-width 19-inch rack-mountable (adhesive feet included, under-table and rack mounting kits sold separately)

Dimensions

Height: 1.70 in (44 mm);
1.80 in (46 mm) with feet

Width: 7.07 in (180 mm)

Depth: 6.37 in (162 mm)

Weight

1.8 lb (0.9 kg)

MODELS & ACCESSORIES

Available Models

CEN-TIA: Telephone Interface and Audio Signal Generator Module

Included Accessories

ST-RMK: Rack Mount Kit

UTK-1U-HALF: Under-Table Mounting Kit for 1RU Half-Width Devices

Notes:

1. The **ST-RMK** Rack Mount Kit and **UTK-1U-HALF** Under-Table Mounting Kit are sold separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

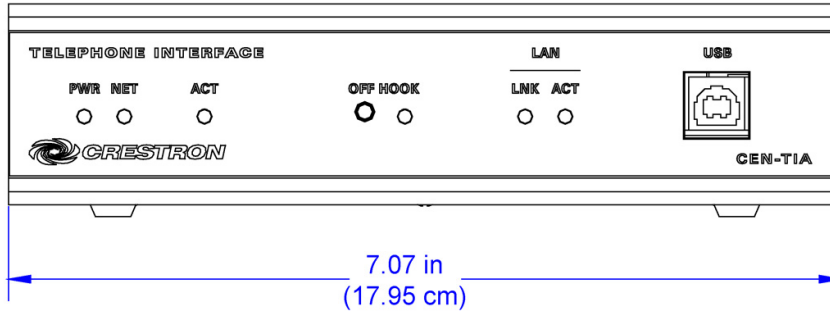
The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

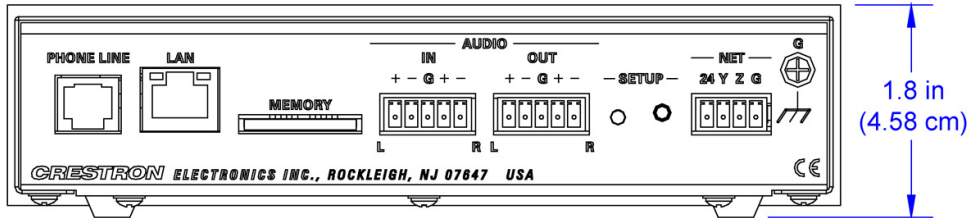
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CEN-TIA Telephone Interface and Audio Signal Generator Module

Front



Rear



Top

