

GCT-iSpeak

Wideband IP Speaker

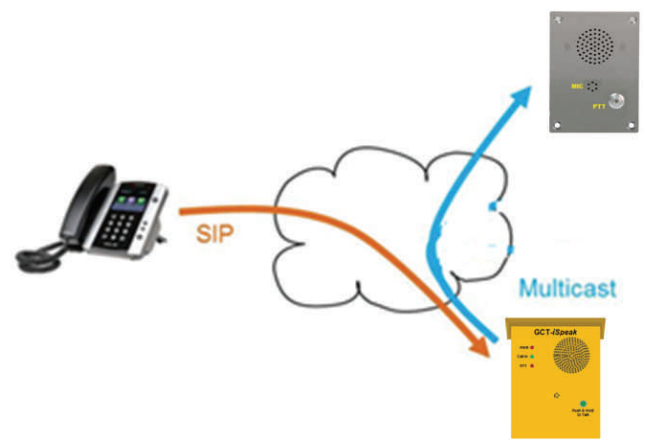
System Overview

GCT-iSpeak is a SIP compliant wall mount indoor/outdoor speaker designed for voice paging, loud ringing, and emergency/ safety/security notification and alerting. The speaker is PoE enabled and equipped with a high efficiency integrated audio amplifier, Common application environments include: classroom, factory warehouse, utility plant, machine shop, garage, lunch room, kitchen, etc.. IP speakers function as a paging system that can broadcast and multi-cast live messages and recordings to target specific rooms, areas, buildings, or campus, overriding any background music or other audio of a lower priority.

Wide-band OPUS codec (HD voice and music) and other existing compatible codec are supported in the speaker to provide optimum speech clarity and intelligibility and high-fidelity music. Voice paging and emergency announcements can be easier to understand with wideband, particularly in a noisy environment.

The speaker registers as a 3rd party SIP endpoint with most standard VoIP telephone systems. A single registered speaker can be configured to stream audio to any predefined number.

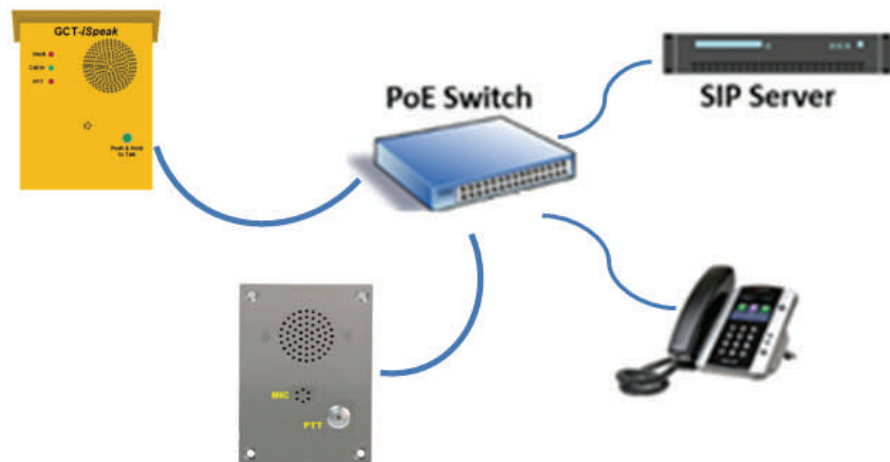
For multi-cast paging applications zone paging is supported via key press selection from standard IP phones. An integrated microphone in the speaker enables talk-back. Built-in microphones and speakers on IP devices enable intercom functionality with two-way communication. Initiate a call with a push of a button, and speak between a phone and the device, or between devices. The IP Speaker functions as a durable, weather-resistant, surface-mount PoE loud-speaker that extends the reach of audio communication to indoor/outdoor environments



Any combination of IP endpoints can be deployed from one to many. There is no limit to the scale of the solution.

GCT-iSpeak: IP Speaker/paging system

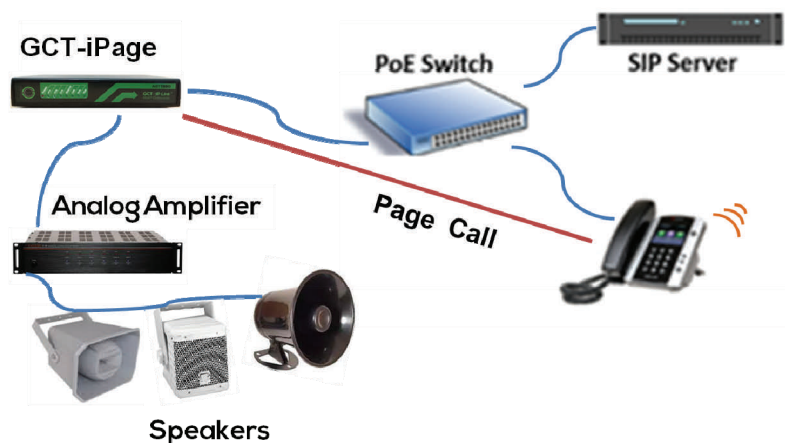
The *GCT-iSpeak* comes with a built in microphone, high efficiency audio amplifier and a high quality loudspeaker. The endpoints are PoE (48V, IEEE802.3af, Class 0) enabled and connect to the network via standard RJ45 connector. Only a PoE switch or injector is required to power the endpoints, and network connectivity to SIP server is all that is needed. No other hardware or software is required to operate the paging system. This devices can operate standalone. They do not require external software for atomic timekeeping or broadcasting messages from the device's web server. However, you can use application software to take advantage of the device capabilities, and then integrate the devices into applications like a mass notification system, a phone network etc..



GCT-iPage : IP Gateway for Legacy Analog Amplifier integration

GCT-iPage paging adapters are designed to IP enable a legacy analog amplifier and speaker infrastructure. These adapters offer seamless integration of the analog paging system into the UC environment. Like *GCT-iSpeak* speakers, the adapters register to the telephone system as a third party SIP endpoint. A Page extension on the adapter will auto-answer when called.

An isolated and both balanced Line Out on the paging adapters will interface with most traditional amplifiers without any hum or noise. SPDIF (Copper & Optical) Out connection options are available to suit any pro audio, commercial or consumer amplifier



i Call : IP based Emergency Call Box

iCall is a IP Public Address and Call Box System and is an ideal solution anywhere a hard-wired Public Address System is either too expensive or is simply impossible to install.

Get your message to everyone... from plant-wide to small pinpoint areas to multi-building campuses using your LAN Network .

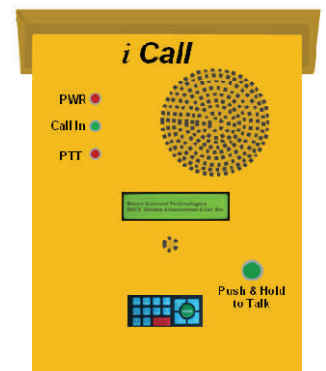
Independent *iCall* Boxes can be positioned on demand anywhere within the LAN/Wi-Fi coverage areas.

The *iCall* Boxes have the functions and capabilities of multiple separate systems in one system and allows for ease of integration into existing infrastructures and system environments.

Any PC in the same LAN environment equipped with *GCT-i Speak* Software can communicate with the IP-Speaker and send Text messages using the standard keyboard.

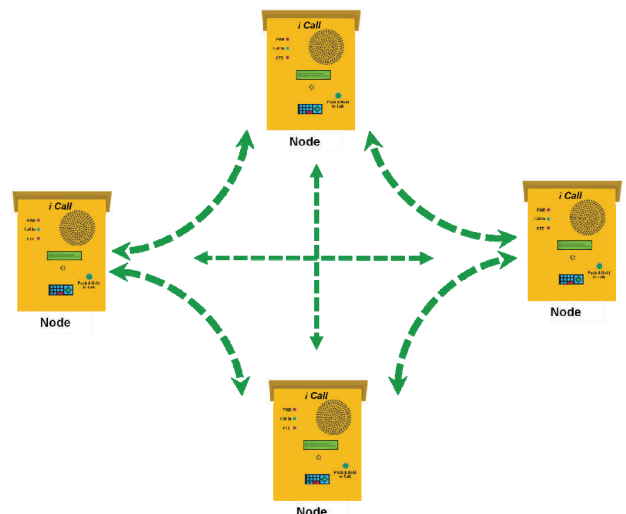
GCT-iCall box can be installed with any SIP exchange & can work as a part of the same system or can be a independent system with a Separate *iCall* SIP Server/Controller hosted in the LAN environment.

GCT-iCall consists of a high quality 10 watt Speaker with high efficiency Audio Amplifier, Microphone, display, dial Keypad and DC Power Supply unit with Battery Backup facility. The Keypad of the *GCT-i Call* can also be used for sending Short Text Messages. The optional Display Extension Port of the *GCT-iCall* can be used for advanced applications like, Interfacing a Large Screen TV or LCD/LED Display to Display Text Information, using the Messaging services. This can be used for displaying Real time parameters / instructions in Industrial applications.



Features:

- * Weatherproof Housing with wall mount option
- * LAN Interface
- * Call Button with Inbuilt Mike & Dial Keypad
- * High quality 10 Watt Internal Speaker with High efficiency Audio Amplifier for loud and clear audio announcement
- * Alpha numeric display and LED indications
- * Talk facility from any Node to Central Console or any other node
- * Optional Facility to interface with external Display Systems & TV Screens for remote messaging.
- * General purpose I/O Ports for third party integration such as Fire Alarms, intrusion detection, Sensors, etc
- * Battery Backup facility with Low battery Alert & AC mains Failure Alert
- * Operating Temperature: -5° C to +55° C



GCT-i Speak: IP Speaker/paging system

FEATURES

- * High efficiency amplifier to broadcast or multi-cast sounds, voice, and music. Multi-functional high quality speaker for voice paging, loud ringing, emergency notification alerting and bell scheduling applications
- * Built-in microphone for two-way communication with Echo Cancellation and noise cancellation for Duplex Voice
- * SIP compatibility with all leading UC vendors including: Avaya, Broadsoft, Cisco, Digium/Asterisk, Mitel, Metaswitch, NEC, and Polycom to name a few
- * Auto-provisioning (i.e., TFTP, SFTP, HTTPS)
- * CODECS Support : Standard G.711/PCMA and PCMU/BCG729/G.722 /G.722.1(Siren7/Siren14)/ GSM 06.10/ iLBC/IPP/PCM/16bit/linear codec/ Open CORE AMR /Opus/Pass through Codec/SILK Code (narrow/medium/wide/super wide-band)/ Speex Codec (narrow/wide/ultra wide-band)
- * Network interface : Ethernet interface with PoE (802.3af) .Power over Ethernet (PoE) means no additional power supply required.
- * Field upgradeable Easy Installation. Built-in web server for configuration, device status, and firmware upgrade
- * Audio Output : 6 W (over PoE) / 10 W with external adapter for *i Speak*; 10 W for *i Call*
- * Interface available to drive high power external audio amplifier.
- * 12V /24V DC Power supply (if no PoE Available)
- * Send audio to individual, multiple, or all devices simultaneously. Multi-cast to scale from one to many speakers
- * Facility of sending alerts and broadcast audio to the device from the control centre /web interface
- * Remote Configurable volume and graphic equalizer
- * Remote Device Status check
- * LED indications
- * Courtesy light option for Night time usage
- * Low battery Alert & AC mains Failure Alert (Optional: *with battery backup facility*)
- * Optional Facility to interface with external Display Systems & TV Screens for remote messaging in real-time.
- * Flexibility of customizing as per users Standard Operating Procedure.
- * General purpose I/O Ports for third party integration such as Fire Alarms, intrusion detection, Sensors, etc
- * Available in various Form Factor/enclosure including Flush mount and weatherproof Housing with wall mounting bracket

Specifications are subject to change without notice



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