



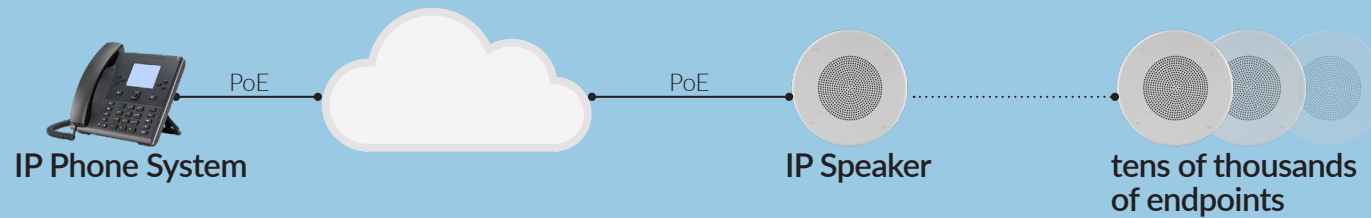
Simple **IP Paging Systems**

From the most basic Valcom IP system to tens of thousands of endpoints, Valcom provides a mix of technologies to meet customer's needs

Valcom offers a full catalog of products that may be used in a multitude of combinations to provide an “exact fit” public address or emergency mass notification system solution.

SYSTEM SIZE

Systems may be as small as a single speaker or horn or may be comprised of tens of thousands of endpoints.



ACCESS

Most systems are conveniently accessed through a facility phone system. We have gateways that allow system access from session initiation protocol (SIP), FXO ports, FXS ports, paging ports, microphones or a mix of these technologies to meet the customer's needs.



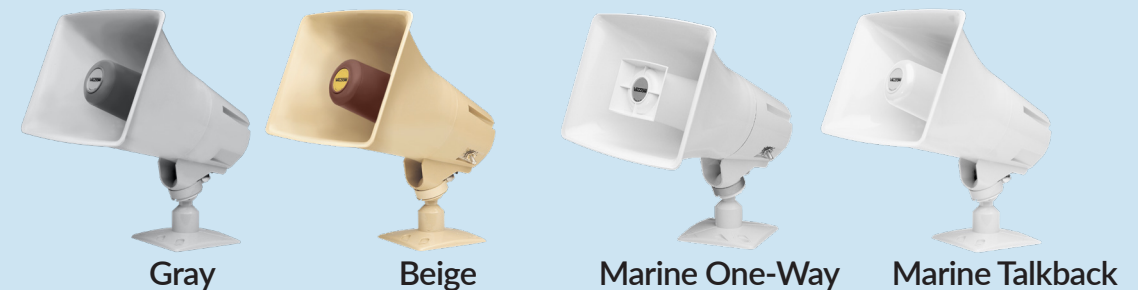
INNOVATIVE

We also offer innovative touchscreen interactive paging consoles. We easily support existing analog speakers and amplifiers to create hybrid of retrofit solutions.



VARIETY

At first glance, the wide array of choices can appear overwhelming, but upon further study, many of the choices are simply different styles of the same. For example, all of Valcom’s IP speakers and horns function and program the same way. They are available as ceiling speakers, wall speakers, emergency “HelpPoints” horns, speakers integrated into LED signs, door entry intercom stations, etc.



OPTIONS

Valcom IP clocks are available in different size and display types, analog display, digital display. Our IP LED message signs can also display time.



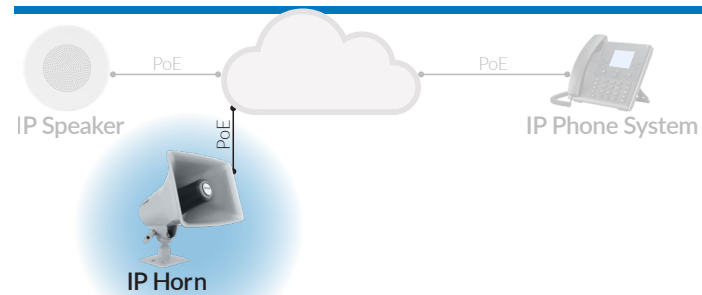
IP LED Message Signs displays messages or time

Let's take a look at a simple full VoIP solution



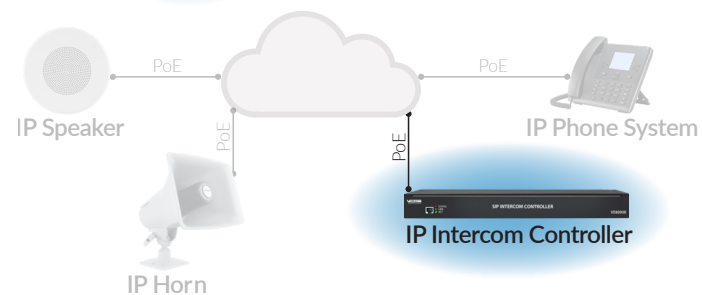
The most **basic** form of a **Valcom IP system** would be a single IP speaker connected to an IP phone system and accessed with Session Initiation Protocol. It could be a broadcast only, or a 2-way intercom connection.

Intercom calls (talkback) may be initiated from a telephone or by the call switches installed at speaker locations.



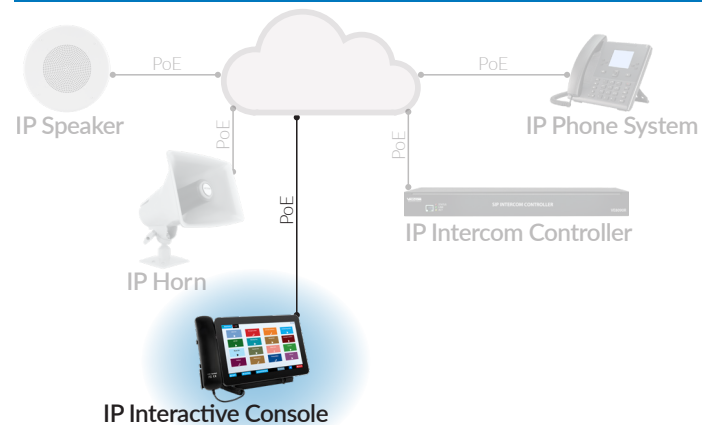
All Valcom IP speakers, **horns**, emergency help stations (HelpPoints) share similar functionality and programming procedures. This makes it easy to add speakers, horns, LED signs and other

Valcom IP endpoints in any combination to achieve a facility's exact requirement. There are no practical limits.



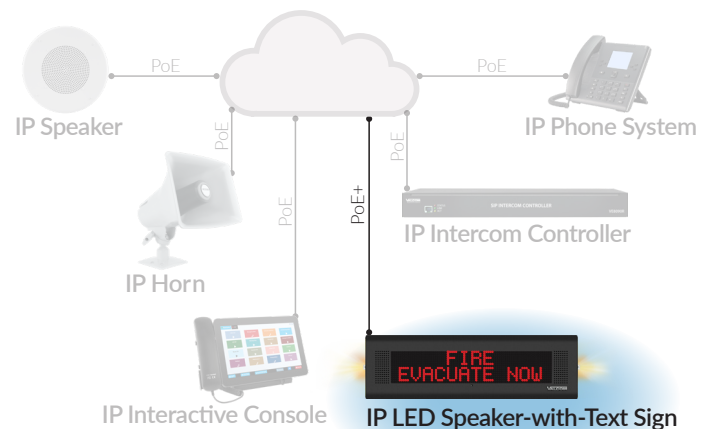
No matter how many speakers, horns and other endpoints are in a Valcom IP system, message bandwidth never exceeds 192 kbps, even when broadcasting through thousands of endpoints simultaneously. These "group" broadcasts require the addition of a gateway. In our simple system, we'll design for SIP access by adding a **SIP Intercom Controller**.

With a SIP Intercom Controller, one SIP call can reach any combination of speakers and horns. We can utilize SIP station, or SIP trunk access. There's no need to incur the cost of a SIP station per speaker or group announcement. One SIP connection per desired simultaneous user is all that is required. One SIP station can access any of thousands of system dial codes!



IP Interactive Consoles add touchscreen access to make live or preprogrammed announcements to any group or any single speaker or horn.

Audio files may be added, recorded and initiated by the touchscreen.



IP Interactive Consoles can also send text and audio to **IP LED Speaker-with-Text Signs** – as many as desired. A convenient integrated scheduler can automatically broadcast area specific audio. IP LED Speaker-with-Text are available with programmable flashing LED strobes to call attention to important announcements.

FXS Gateways provide dial tone access for plain old telephones or phone system FXO/Trunk port access.

FXO Gateways provide access from select analog extensions or allow SIP access of most analog systems.

Networked Input & Relay Modules provide IP controlled relays and switch inputs for interface to analog systems.














Servers provide many enhanced features such as a graphical user interface, sequenced 'playlists' of multiple audio and text streams, advanced scheduled audio and text.

There are many optional endpoints available and most are powered by PoE:

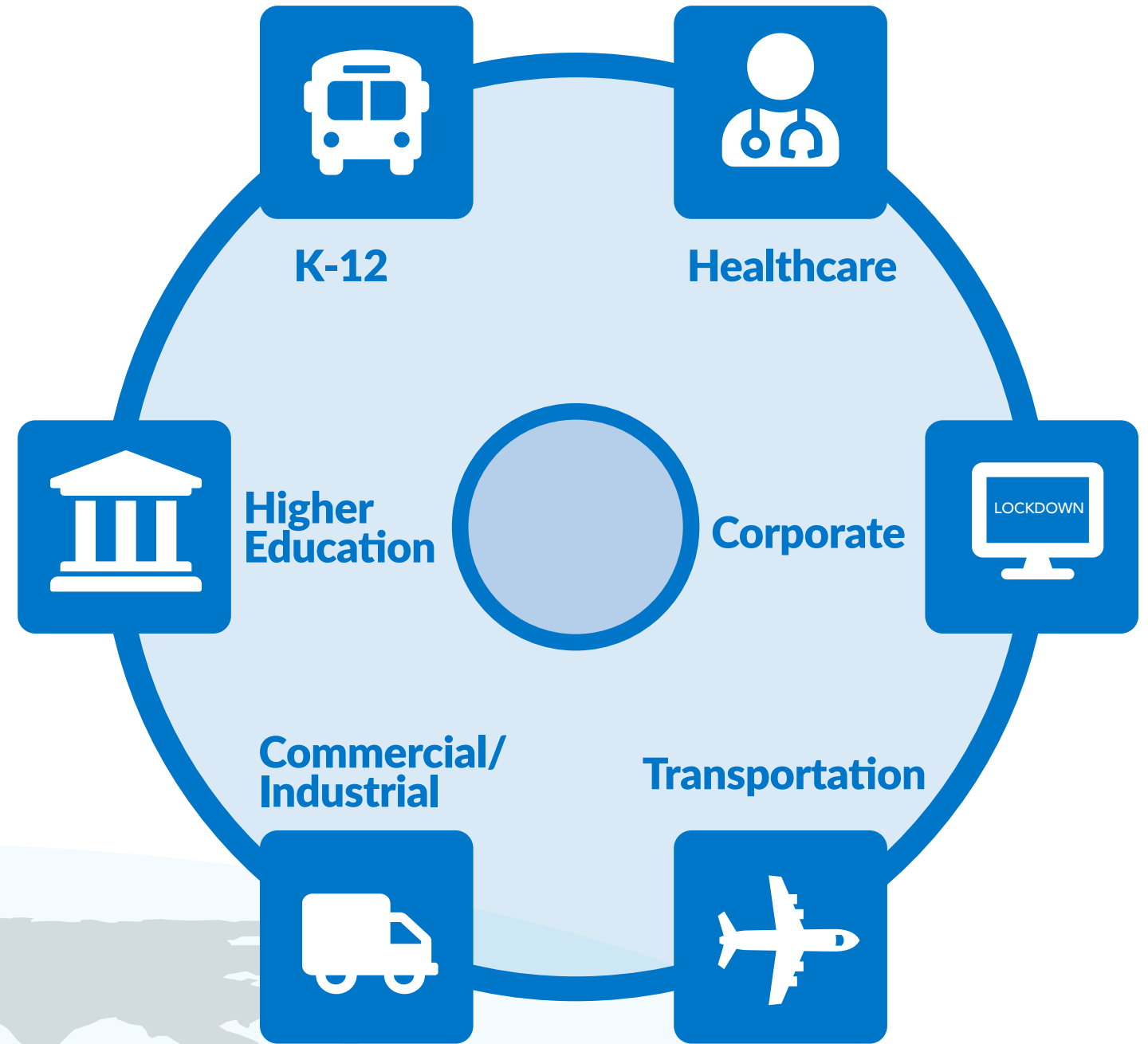
Multipoint Gateways, Audio Gateways and IP amplifiers connect to existing speakers and cable to modernize old analog systems.

And much more . . .

Easy Integration

-  **Push Voice/Text to IP Phones**
Broadcast Alert Visually & Audibly
-  **Existing Intercom/Paging Systems**
Broadcast Alert Audibly
-  **Blue Light Emergency Stations**
Broadcast Alert Audibly
-  **Access Control**
Lock/Unlock/Restrict
-  **Digital Signage**
Broadcast Visual Alert
-  **Emails**
Send Alerts by Email
-  **Video Systems**
Activate/View/Record
-  **Gun Shot Detection**
-  **Desktop Alerting**
Broadcast Visual Alert
-  **Giant Voice**
Broadcast Alert Audibly
-  **SIP Door Intercom**
Broadcast Alert Audibly
Audio Lock/Unlock
-  **Two-Way Radio Systems**
Broadcast Alert Audibly
-  **Fire Alarm Systems**
Broadcast Alert Audibly

Solutions for everywhere



VoIP Key Points

- ▶ Systems have no size limit and can span buildings, cities, and countries.
- ▶ Systems use extremely low bandwidth regardless of system size.
- ▶ Systems are easily supervised.
- ▶ All programming, including individual volume adjustment is accomplished remotely over the network.
- ▶ There are 100 levels of message priority to ensure that emergency messages get delivered.
- ▶ Access methods such as microphones, telephones, SIP, interactive consoles, audio sources may all be used in the same system.
- ▶ IP clocks, LED signs, Strobes, Visual Threat Level Indicators, IP controlled Relays to control analog systems such as access control are readily available.
- ▶ Schedules to automate audio, relays, text messages, music distribution are available.
- ▶ Single launch of different messages, audio or text, email, Common Alerting Protocol may be accomplished through a graphical interface, pushbuttons, dial codes, Common Alerting Protocol from other systems and more.
- ▶ Integration with existing equipment is easy to accomplish.

Every Valcom voice over IP system is unique. Systems may include one endpoint or thousands of endpoints. These endpoints may include IP speakers, IP horns, IP LED signs, IP strobes and your choice of access gateways. Simply choose the endpoints you wish to include, connect them on a properly configured network, configure with our easy-to-use setup software and your system is complete!