VolP V2 Paging Amplifier

The new CyberData V2 SIP-enabled VolP Paging Amplifier provides an easy method for implementing an IP-based overhead paging system for both new and legacy installations.

With up to 25 watts of driving power (802.3at), the Amplifier provides direct drive of a standard Horn speaker and supports a line-out connector for connection to an external amplifier. The interface is compatible with most SIP-based IP PBX servers that comply with the SIP RFC 3261. For non-SIP environments, the Paging Amplifier can be configured to listen to multicast address and port number combinations to form paging zones.

**Ringer Mode**
The VoIP V2 Paging Amplifier supports two SIP extensions. One extension can be assigned to a page group for auto answer paging. The second extension can be assigned to a “First-to-Answer” ring group with IP phones. An audio ring file is activated when the second SIP extension of the ceiling speaker is dialed. If any of the IP phones in the ring group is answered (or if the caller hangs up), the Paging Amplifier stops ringing.

**Features**
- SIP and Simultaneous Multicast
- Dual-speed ethernet 10/100 Mbps
- Web-based configuration
- PoE 802.3at and 802.3af-enabled
- Line-in for background music
- Line-out connector
- DTMF controlled relay
- Direct 8 Ohm speaker drive
- User-uploadable tones and messages
- Digital and manual volume control
- Second SIP endpoint “Night Ringer”
- Autoprovisioning
- Auto-call voice message from input port sense
- Can support two horns in parallel

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**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet I/F</td>
<td>10/100 Mbps</td>
</tr>
<tr>
<td>Power Input</td>
<td>PoE 802.3at or 802.3af</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C to 50°C (14°F to 122°F)</td>
</tr>
<tr>
<td>Protocol</td>
<td>SIP RFC 3261</td>
</tr>
<tr>
<td>Payload Types</td>
<td>G711</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 Years Limited</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1.26” x 9.45” x 3.13”</td>
</tr>
<tr>
<td>Output</td>
<td>802.3af - up to 8 watts</td>
</tr>
<tr>
<td>Line In:</td>
<td>802.3at - up to 25 watts</td>
</tr>
<tr>
<td>Input Signal Amplitudes</td>
<td>2.0 VPP maximum</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>10k Ohm</td>
</tr>
<tr>
<td>Output</td>
<td>2.0 VPP maximum</td>
</tr>
<tr>
<td>Output Signal Amplitudes</td>
<td>+2dBm nominal</td>
</tr>
<tr>
<td>Output Level</td>
<td>0.5% maximum</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
<td>10k Ohm</td>
</tr>
<tr>
<td>Part Number</td>
<td>011061</td>
</tr>
<tr>
<td>Loudspeaker Part Number</td>
<td>011068</td>
</tr>
</tbody>
</table>

Loudspeaker (part #011068) must be purchased separately.
Typical Installation - PoE 802.3at

Generic 802.3at PoE Switch
High Power PoE Switch

1 2 3 4 5 6

(up to 25 watts)

011068 Loudspeaker
IP Phone
IP-PBX Server

Typical Installation - High Power PoE Injector

Non-PoE Switch

1 2 3 4 5 6

PoE Injector
(High power, 802.3at)
(up to 25 watts)

011068 Loudspeaker
IP Phone
IP-PBX Server

Typical Line Out Installation

Generic Ethernet Switch

1 2 3 4 5 6

Existing Loudspeaker
Amplifier
Paging Amplifier
(Line-Out Connection)
(up to 25 watts)

IP Phone
IP-PBX Server
VoIP V2 Paging Amplifier

User can upload an audio message to the Paging Amp.

When the “Sense-In” is activated, the stored Audio file will play out the local speaker and repeat until the condition is cleared.

The Paging Amp can also call a pre-set phone number and when that phone answers, the stored Audio message will also be played to the phone.

V2 Paging Amplifier Connections

1-Sense (+)
2-GND
3-Relay COM
4-Relay NO
5-Line-In(+)
6-Line-In(-)
7-Line-Out(+)
8-Line-Out(-)
9-Spkr Out(+)
10-Spkr Out(-)

CLASS II WIRING

DC POWER SUPPLY
(MAX 30 VDC @ 1A)

Alert Strobe

When the V2 Paging Amplifier is called from a remote phone, the relay on the paging amplifier can be programmed to blink and drive an Alert Strobe.

Window Reed switch is connected to the “Sense-In” connection.

V2 Paging Amplifier with Strobe Alert

Output Contacts Ac or DC rated Depending Upon Controlled Device Requirements

Power Source

AC or DC

Solid State or Mechanical Relay

High PIV UltraFast Switching Diode