




*Connecting the SIP Paging Server to  
Valcom V-1030C or V-1036C Self-  
Amplified Speakers Using a Valcom  
V-1094 or V-2994 Page Port  
Pre-Amplifier/Expander*

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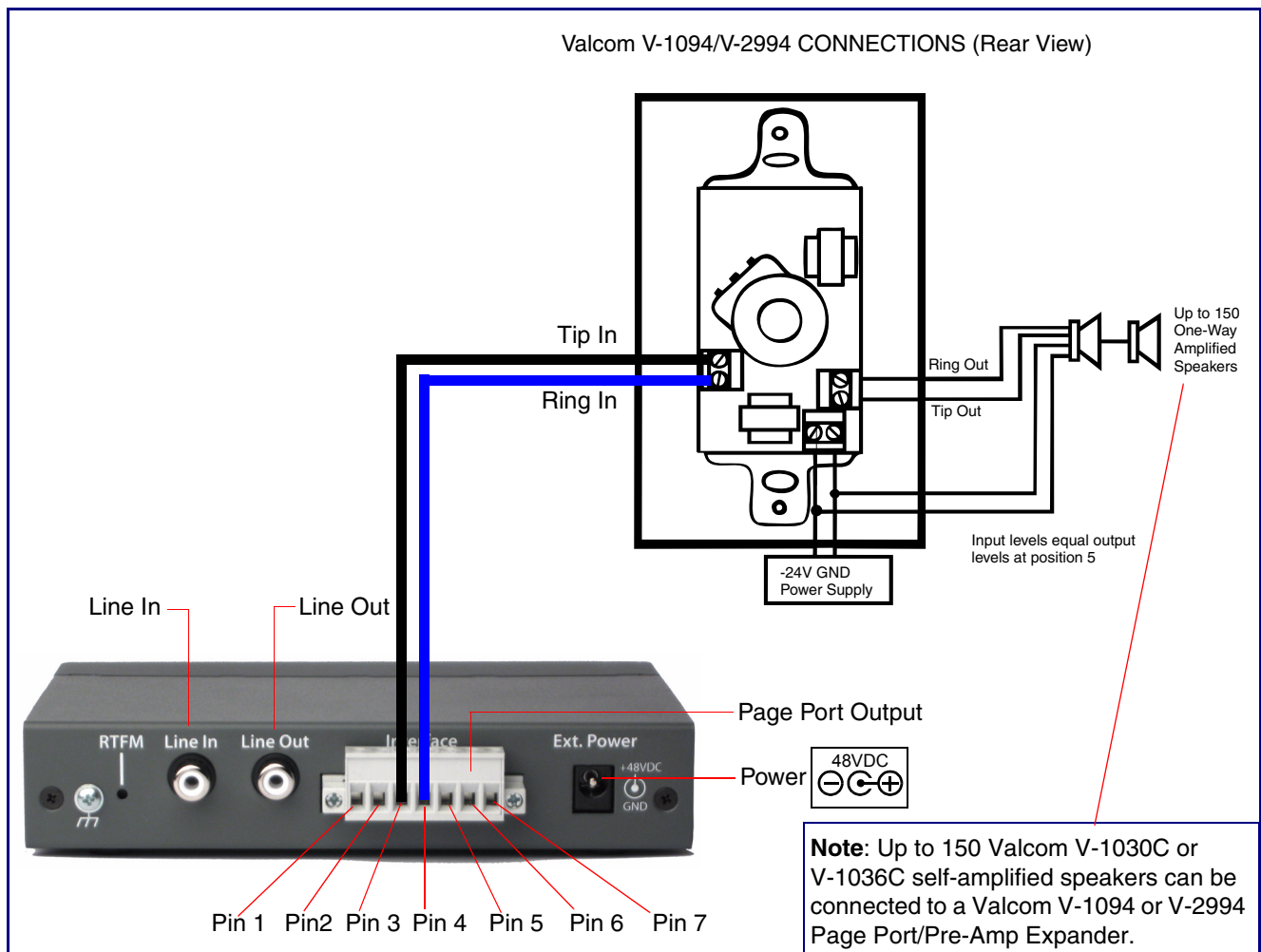
## 1.0 SIP Paging Server to Valcom V-1094/V-2994 Connections

It is necessary to use a Valcom V-1094 or V-2994 Page Port Preamp/Expander in series between a SIP Paging Server and V-1030C/1036C horns. The SIP Paging Server connects as a 600 Ohm Page Port to the Pre-Amp/Expander. The Valcom V-1094 or V-2994 Page Port Preamp/Expander isolates the SIP Paging Adapter from the speaker lines.

 GENERAL ALERT	<p><b>Caution</b></p> <p><i>Equipment Hazard:</i> Please be advised that directly connecting the SIP Paging Server Valcom V-1030C/1036C self-amplified horns without the use of a Page Port Pre-Amplifier/Expander results in severe audio degradation and could cause irreparable damage to the CyberData device. This would be considered installation damage and void the warranty. Contact <b>CyberData VoIP Technical Support</b> before installation with questions or concerns about connecting to Valcom V-1030C/1036C or other self-amplified horns.</p>
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See [Figure 1](#) and [Table 1](#) for connecting the SIP Paging Server to a Valcom V-1094/V-2994.

**Figure 1. SIP Paging Server to Valcom V-1094/V-2994 Connections**



**Table 1. Page Port Output Connections**

Pin	Description
1	Fault Sense Input (Common). See <a href="#">Section 1.1, "Pin 1 and 2—Fault Sense Input (Common/Sense)"</a> .
2	Fault Sense Input (Sense). See <a href="#">Section 1.1, "Pin 1 and 2—Fault Sense Input (Common/Sense)"</a> .
3	Positive 600-Ohm Audio Output <sup>a</sup> . See <a href="#">Section 1.2, "Pin 3, 4, and 5—Positive/Negative 600-Ohm Audio Output/Audio Ground Reference"</a> .
4	Negative 600-Ohm Audio Output. <sup>a</sup> See <a href="#">Section 1.2, "Pin 3, 4, and 5—Positive/Negative 600-Ohm Audio Output/Audio Ground Reference"</a> .
5	Audio Ground Reference. See <a href="#">Section 1.2, "Pin 3, 4, and 5—Positive/Negative 600-Ohm Audio Output/Audio Ground Reference"</a> .
6	Relay Contact - Common <sup>b</sup> . See <a href="#">Section 1.3, "Pin 6 and 7—Relay Contact (Common/Normally Open)"</a> .
7	Relay Contact - Normally Open <sup>b</sup> . See <a href="#">Section 1.3, "Pin 6 and 7—Relay Contact (Common/Normally Open)"</a> .

- a. The 600-Ohm audio output of the page port is also suited for interfaces with lower input impedances.
- b. 1 Amp at 30 VDC for continuous loads

### 1.1 Pin 1 and 2—Fault Sense Input (Common/Sense)

This input was designed as a method of monitoring an external amplifier that is equipped with a fault sense relay.

When enabled on the **Fault Detection** page (see the **Configure the Fault Detection Parameters** section of the Operation Guide on the [SIP Paging Server Documentation web page](#)), this input (when closed) will play a user uploadable audio file out of the line-out connection and/or place a SIP call to a pre-determined extension and play that file.

### 1.2 Pin 3, 4, and 5—Positive/Negative 600-Ohm Audio Output/Audio Ground Reference

This output allows direct connection to paging amplifiers requiring a "Page Port" type input that meets a balanced 600 Ohm 10Vpp signal.

### 1.3 Pin 6 and 7—Relay Contact (Common/Normally Open)

When enabled on the **Device Configuration** page (see the **Configure the Device Parameters** section of the Operation Guide on the [SIP Paging Server Documentation web page](#)), every time an audio file is played out of the local line-out or 600 Ohm output, the relay will close, thereby enabling amplifiers with a remote turn-on capability to become active.