



Connecting the Singlewire Paging Adapter 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 Singlewire Paging Adapter 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 Singlewire Paging Adapter and V-1030C/1036C horns. The Singlewire Paging Adapter 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>Caution</p> <p><i>Equipment Hazard:</i> Please be advised that directly connecting the Singlewire Paging Adapter 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 CyberData VoIP Technical Support 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 Singlewire Paging Adapter to a Valcom V-1094/V-2994.

Figure 1. Singlewire Paging Adapter to Valcom V-1094/V-2994 Connections

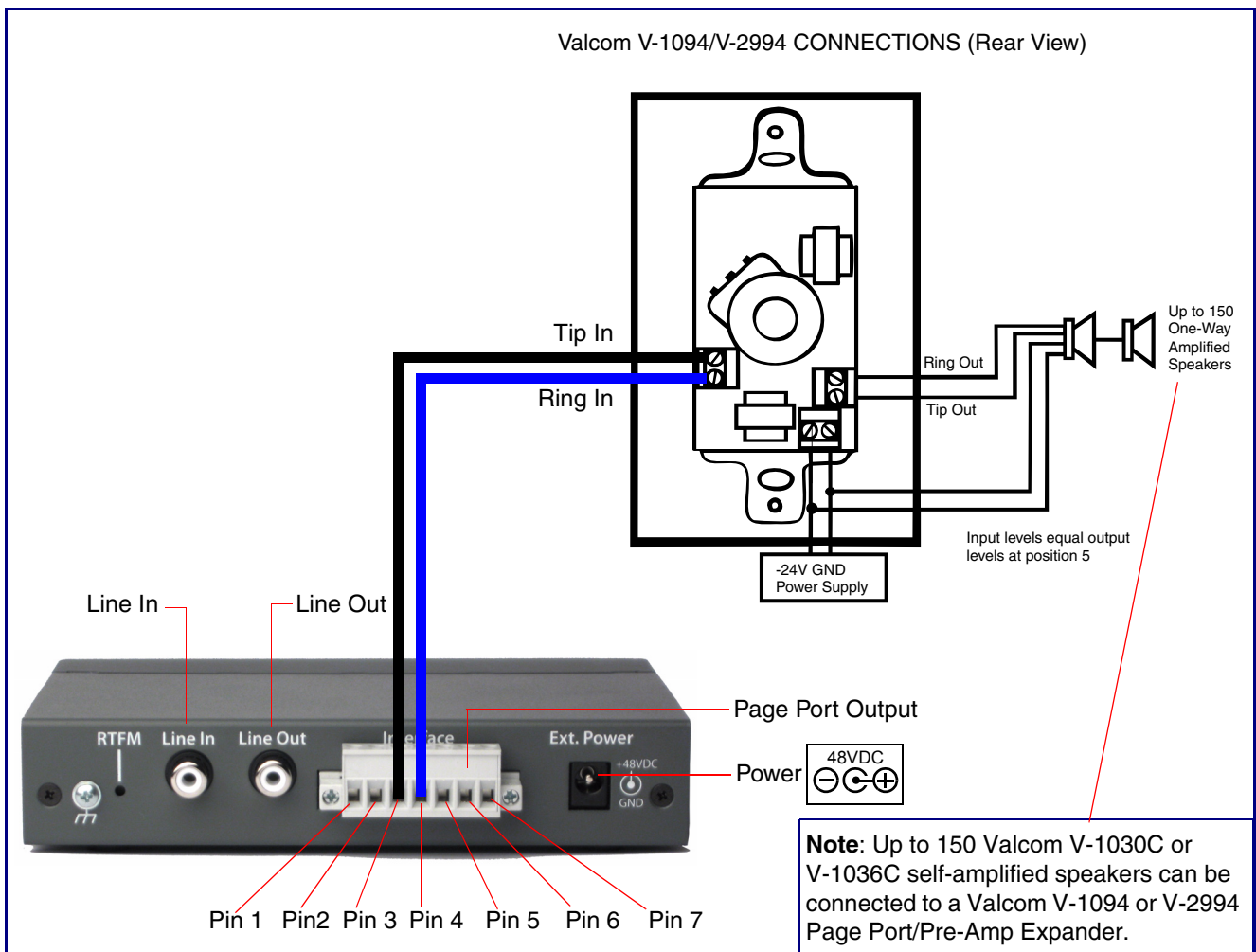


Table 1. Page Port Output Connections

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

- 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 [Singlewire Paging Adapter 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 [Singlewire Paging Adapter 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.