

ezIP PAGE CONTROLLER

EZ-PC3, EZ-PC6

INTRODUCTION

The ezIP Page Controller is a three or six zone hybrid analog one-way page controller, combining analog paging zones with IP capabilities to bridge the analog and IP worlds. The EZ-PC3 Page Controller has three one-way zones enabled, with three more zones available by license purchase. The EZ-PC6 Page Controller has six one-way zones enabled without additional purchase. Both the 3-zone and 6-zone models can be upgraded to Talkback capability with license purchase.

SPECIFICATIONS

Access Methods

- FXS extension
- PABX station extension
- PABX loop start trunk port
- Standard telephone
- SIP (Session Initiation Protocol)

Electrical Specifications

FXO Input

Ring Detect Voltage	13.5V Min
REN	0.2

FXS Input

DC Open Circuit Voltage	-48V Nominal
DC Feed Circuit	45mA Max
DC Differential Output Resistance	60-640 Ohms
Ringing Amplitude (nominal, open circuit)	108V peak
Ring Frequency	20Hz
Audio Sense Release:	Programmable, 0-600 Seconds
Time Out Release:	Programmable, 0-3600 Seconds

Zone Outputs

Impedance:	Min. 8 Ohms
Page Level:	-10dBm to 0dBm
Music Level:	-17dBm to 0dBm
Music Input Impedance:	10k Ohms
	-23dBm to 0dBm
Answer Verification Tone:	User Programmable
Form A Contacts:	24Vdc, 1.0 Amp

Nominal Power Requirements

Via rear panel connector:	24Vdc, 1 Amp
Via 802.3af PoE Ethernet Switch:	Class 3

These products are intended for use with a UL Listed power source marked "Class 2" or "LPS" rated 24VDC. All interconnected ITE are intended for intra-building.



Features

- Supports Valcom 45 Ohm, 25 Volt or Self-Amplified speakers
- Use with SIP (Session Initiation Protocol) VoIP PBX
- Multiple units may be connected over the network for expanded paging zones
- Background music input; music mutes during page
- Security code option to restrict page access
- Store & Play feedback eliminator option
- Multiple disconnect options
- Page verification tone
- Customizable page alert tone
- Scheduler for tone output on a timed basis

The following features can be enabled with additional license purchase:

- Full compatibility with standard Valcom IP endpoints, including two-way communication with directly attached or IP talkback speakers
- SIP expanded to 4 extensions, with Night Ring and Store & Play on all lines

Dimensions/Weight

Single unit:

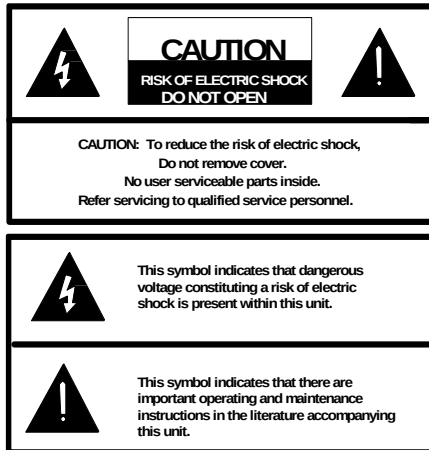
8.13" W x 10.75" D x 1.72" H
(20.7cm W x 27.3cm D x 4.4cm H)
Weight 2.0 lbs (0.91 kg)

Two units mounted for 19" Rack:

19.0" W x 10.75" D x 1.72" H
(48.3cm W x 27.3cm D x 4.4cm H)
Weight 4.1 lbs (2.31 kg)

Environment

Temperature:	0 to +50°C
Humidity:	Class 3 0 to 80% (non-precipitating)



IMPORTANT SAFETY INFORMATION CONSIGNES DE SÉCURITÉ IMPORTANTES

1. Read these instructions.
Lisez ces instructions.
2. Keep these instructions.
Conservez ces instructions.
3. Heed all warnings.
Respectez tous les avertissements.
4. Follow all instructions.
Suivez toutes les instructions.
5. Do not use this apparatus near water.
Ne pas utiliser cet appareil près de l'eau.
6. Clean only with dry cloth.
Nettoyer avec un chiffon sec.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
Ne pas installer à proximité de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet consult an electrician for replacement of the obsolete outlet.
Ne pas contourner le dispositif de sécurité de la fiche polarisée ou de mise à la terre. Une fiche polarisée possède deux lames dont une plus large que l'autre. Une fiche de terre a deux lames et une troisième broche de mise à la terre. La lame large et la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, veuillez consulter un électricien pour le remplacement de la prise obsolète.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
N'utilisez que des fixations / accessoires spécifiés par le fabricant.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
Utilisez uniquement avec le chariot, stand, trépied, support ou table spécifiée par le fabricant ou vendu avec l'appareil. Quand un chariot est utilisé, Soyez prudent lorsque vous déplacez l'ensemble chariot / appareil pour éviter des blessures dues au renversement.
13. Unplug this apparatus during lightning storms or when unused for a long period of time.
Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant une longue période de temps.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way. Such as when the power supply cord or plug is damaged, liquid has been spilled, objects have fallen into the apparatus or the apparatus has been exposed to rain or moisture and does not operate normally or has been dropped.
Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon. Par exemple lorsque le cordon d'alimentation ou la fiche est endommagée, du liquide a été renversé, si des objets sont tombés dans l'appareil ou le appareil a été exposé à la pluie ou à l'humidité et ne fonctionne pas normalement ou s'il est tombé.



- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- L'appareil ne doit pas être exposé à des égouttements et éclaboussures et aucun Objet Rempli de liquide, comme vase, ne doit être placé sur l'appareil.

FCC Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at one's own expense.

General Mounting Information

- A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- C) Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- D) Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- E) Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained.
- Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).
- F) Equipment only suitable for mounting at heights less than or equal to 2m (6.56').

INSTALLATION

Regulatory Information

This equipment is to be installed only in restricted access areas (dedicated equipment rooms, equipment closets or the like).

When using this equipment, basic safety precautions should always be followed to reduce the risk of fire,

Precautionary Designations

- **WARNING-To Reduce The Risk Of Fire Or Electric Shock. Do Not Expose This Apparatus To Rain Or Moisture**
- **AVERTISSEMENT - Afin de réduire les risques d'incendie ou de décharge électrique, évitez d'exposer le système à la pluie ou à l'humidité.**

electric shock and injury to persons including the following:

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.

Mounting

Wall: Attach the mounting brackets to the EZ-PC Page Controller using the #8 screws provided. Use appropriate hardware (not included) to attach the brackets and controller to the wall. (See Figure 1)

Rack: Rack mounting a single Page Controller uses one short end bracket and one long end bracket (included). Attach one short end bracket to one side of the Page Controller and the long end bracket to the other side. Mount the assembly into an available rack space.

Two Page Controller units may be joined together and installed into a 1U rack slot. Using Figure 2 as a guide, attach the interlock brackets and end mounting brackets to each of the EZ-PC Page Controller units, then mount the combined units into an available rack slot.

Power Requirements

The EZ-PC Page Controller requires 24 Volt DC power or Power over Ethernet (PoE). DC power is connected using screw terminals located on the back panel. The recommended DC power supply is the VP-1124D. PoE power must be compliant with IEEE 802.3af standard.

Connections

Front Panel

The front panel of the EZ-PC Page Controller has the following controls:

- **Status** LED indicates the operating status of the EZ-PC Page Controller.
 - **Green** indicates powered on and idle
 - **Amber** indicates Page in progress
 - **Red** during the bootup sequence, or to indicate a fault condition
- **Ethernet** is an RJ45 ethernet connection with two status LEDs:
 - **Green:** (Link) Indicates Ethernet connection when illuminated.
 - **Yellow:** (Activity) Indicator flashes to indicate network activity

Rear Panel

The rear panel of the EZ-PC Page Controller contains the signal connections. The screw terminals are removable for ease of installation.

- **Power** connection labeled **24Vdc** is provided with two screw terminals marked as + and -.
- **Zones 1 through 6** are the outputs for the six possible paging zones. Zones 1, 2 & 3 are active for all controllers. Zones 4, 5 & 6 are active for the EZ-PC3 if the additional license has been purchased.

The speaker type is selected in the software during programming, with the choices of 25 Volt, 45 Ohm or Self-amplified. All speakers must be of the same type and must not exceed the following limits:

45 Ohm	Max 6 Valcom 45 Ohm speakers
25 Volt	Total tap of 30 watts across all zones
One-Way Line Level	Max 120 Valcom self-amplified speakers

- **CC** is the **Contact Closure** input for optional inputs, such as call switches. This connection is active if the full Valcom/Talkback license has been purchased. Up to 6 contact closures can be defined using the EZ-PCIA6 wiring adapter (available separately).
- **Relay N.O & Comm** terminals provide a Normally Open relay output that can be programmed to activate when a page is made.
- **Music** provides two terminals for connecting a line level background music source.
- **Override Audio & Control** provide inputs for line level audio and dry contact control leads for activation. When activated by shorting the control leads, audio on the input will be sent to all zones.
- **Page Access RJ11 Connections**
 - **FXS** provides FXS signaling. This is used with a single line telephone or PBX loop start trunk port. Dial tone is provided from this port.
 - **FXO** provides FXO signaling. This is used with an FXS Station Port and will answer inbound calls signaled by ring voltage.

Setup

All configuration of the EZ-PC Page Controller is performed using the built-in web interface or using the Valcom IP Solutions Setup Tool. Download the latest version of the free Setup Tool from www.valcom.com/vipsetuptool.

Separate documentation on programming the features of the EZ-PC Page Controller is available on the Valcom web site.

TECHNICAL ASSISTANCE

When trouble is reported, verify that power is being supplied to the unit and there are no broken connections. If a spare unit is available, continue to troubleshoot by substituting the spare unit for the suspected defective unit.

Assistance in troubleshooting is available from the factory. When calling, you should have a VOM, several clip leads, a telephone test set available and call from the job site. Call (540) 563-2000 or visit our website at <http://www.valcom.com>.

The EZ-PC Page Controller is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach the company name, address, phone number, contact person and the nature of the problem. Send the unit to:

Valcom, Inc.
Repair and Return Dept.
5614 Hollins Road
Roanoke, VA 24019-5056

WARRANTY

Warranty information may be found on our website at www.valcom.com/warranty

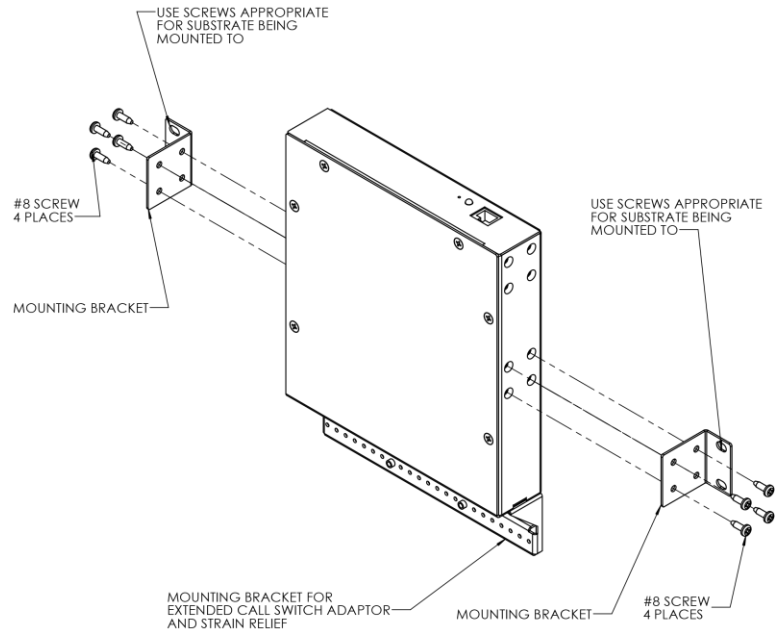


Figure 1. Wall Mounting

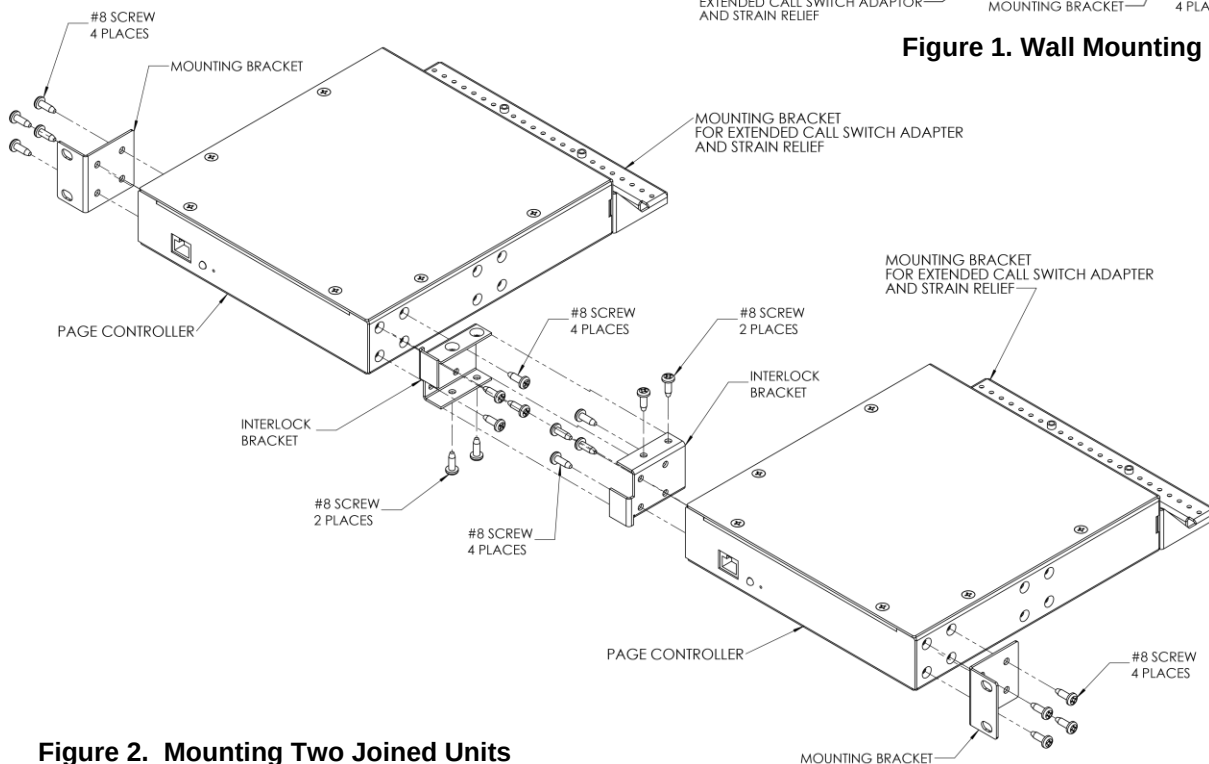


Figure 2. Mounting Two Joined Units

Basic Connections

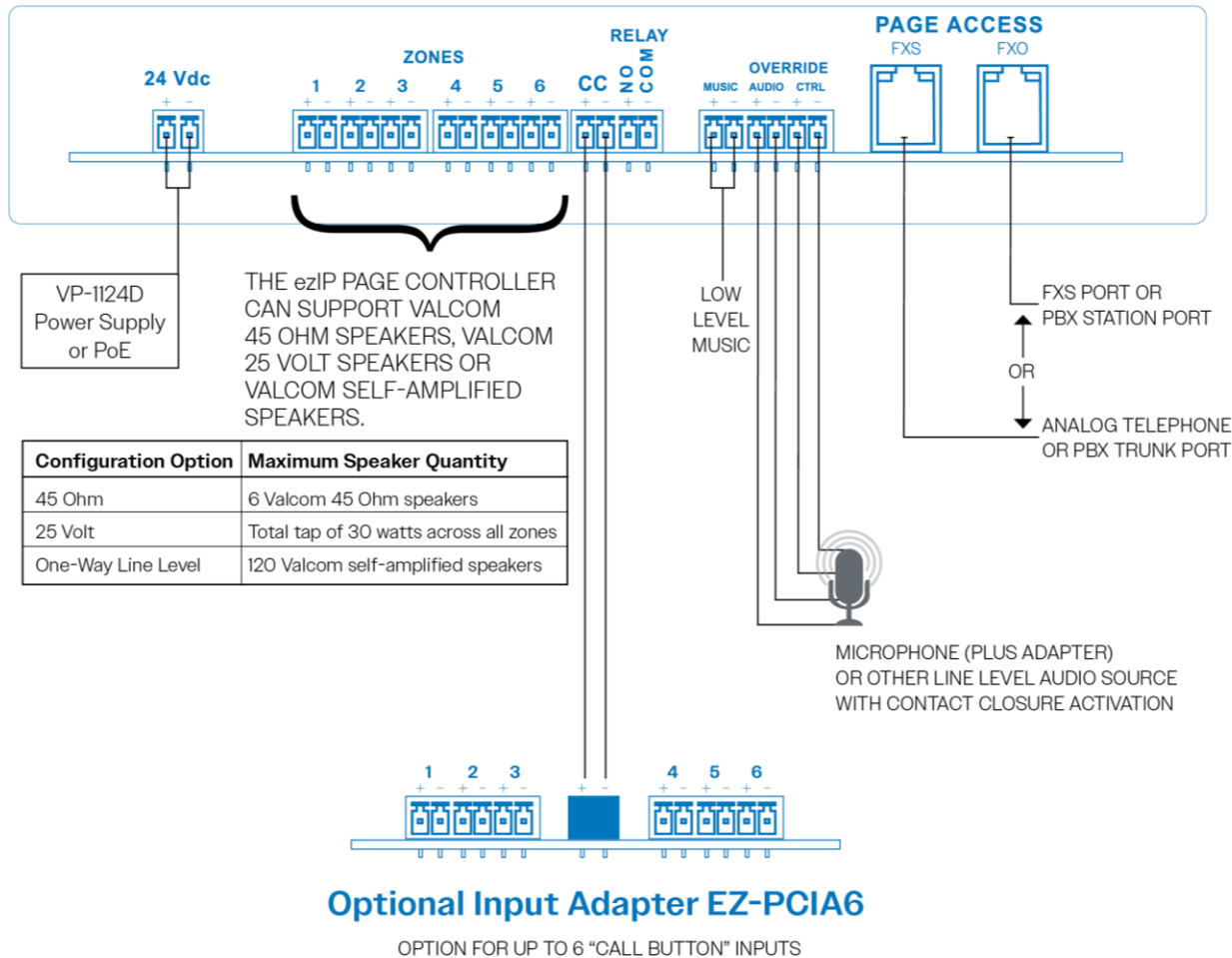


Figure 3. Connections