

## VIP-802 DUAL NETWORKED PAGE ZONE EXTENDER

### INTRODUCTION

The VIP-802 Dual Networked Page Zone Extender enables voice access to two zones of one-way paging over an IP-based LAN/WAN. This allows page zone extension anywhere on the network.



### SPECIFICATIONS

#### Features

- 2 Audio Outputs
- 2 Audio Inputs
- 2 Form A relay contacts
- 2 Contact Closure Inputs
- RJ-45 for network connection
- Front panel activity LED
- Provides audio for up to 150 Valcom one-way amplified speaker assemblies
- AUX audio input via RCA jack
- Contact closure or VOX operation of audio input
- Removable screw terminal connectors provided for audio and relay interface
- Page with music output, music mutes during page
- Output control contact closure provided during paging output
- Compatible with 25 or 70 Volt amplifiers
- 2.5mm jack for DC power
- Power over Ethernet 802.3af Compliant

#### Dimensions/Weight

- 1.75 H x 6.75" W x 9.5" D  
(4.45cm H x 17.15cm W x 24.13cm D)
- Weight: 1.75 lbs. (0.80 kg)

#### Nominal Specifications

Input Impedance:	600 Ohms
Input Level:	-10dBm nominal
Voice Switch Sensitivity:	-21dBm
Music Source Input Impedance:	8 to 600 Ohms
Music Input Level:	-10dBm nominal
Output Impedance:	50 Ohms
Output Level:	- 10dBm nominal
Relay Current:	1 AMP @ 24VDC

#### Nominal Power Requirements

##### Via back panel barrel connector:

Voltage:	24VDC
Current:	325mA

##### Via 802.3af PoE Ethernet Switch:

802.3af:	Class 3
----------	---------

#### Environment

Temperature:	0 to +40° C
Humidity:	0 to 85% non-precipitating





#### Packing List

Qty	Item
1	VIP-802
1	VIP-101 Setup CD
1	VSP Document
2	Mounting Brackets
4	Rubber Feet
6	Wood Screws
3	RJ-45 Patch Cables
2	RJ-45 Terminal Blocks

## INSTALLATION

**NOTE:** The telephone system referred to in this manual is the customer premise equipment such as an electronic key system, a PBX or a dedicated single line telephone sets. The VIP-802 is not intended for direct or indirect connection to the public telephone network. When used with a customer premise telephone system such as a key system or PBX system, these units are interfaced to the system via a fully protected page port or system central office port, which is a fully protected interface device. Also, the host system must be configured to disallow central office trunk conferencing in order to prevent indirect connection to the public network.

### Precautionary Designations

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: To reduce the risk of electric shock, Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.		
	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.	
	This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.	

### 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 his own expense.*

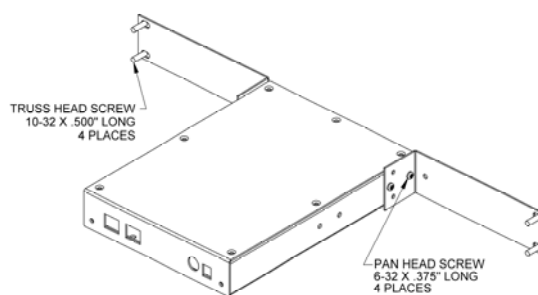
### Mounting

The VIP-802 is designed for wall, table or rack mounting.

**Table:** Provided with the VIP-802 are four rubber stick on feet. Peel these feet off their carrier backing and place at the four corners of the bottom of the unit.

**Wall:** Using the template and instructions provided, secure the VIP-802 to the wall.

**Rack:** Following the assembly drawing, attach the two mounting ears to the VIP-802 unit. Using rack screws, mount the VIP-802 in an available 1U rack slot.



### Power Connections

The preferred method of powering a VIP-802 is via a power over Ethernet switch meeting the 802.3af specification. The Valcom VIP-908 Ethernet switch which is ideal for this purpose and will power up to 7 VIP-800 series devices.

If the rear panel barrel connector is used for power, the preferred power supply is a Valcom VIP-324.

Make all required signal connections before applying power to the unit. If powering via 802.3af, make sure all signal connections via the back panel are made then connect the VIP-802 to the Ethernet switch.

If power is supplied via the barrel connector, make sure all signal connections are secure. Attach the unit to the network via the front panel RJ-45 Ethernet connector. Apply power by plugging the power supply into the VIP-802 via the barrel connector on the rear of the VIP-802.

### Network Connection

The VIP-802 has one CAT-5 RJ-45 network connector on the front panel.

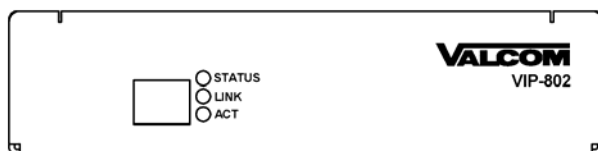
Use one of the supplied CAT-5 patch cables to connect the VIP-802 to an Ethernet switch. If the Ethernet switch is 802.3af compliant the VIP-802 will draw power from it.

## Signal Connections

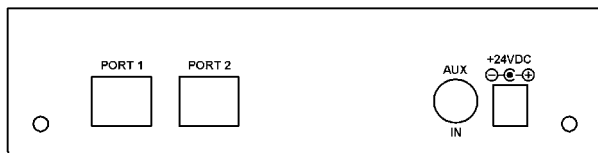
The VIP-802 has 3 signal connectors on the rear panel.

- 1 RCA jack for AUX audio input
- 2 RJ-45 connectors for audio and relay connections for each networked channel

**AUX Input:** Local audio input is via the rear panel RCA jack. Nominal input impedance is 600 Ohms. Connect any compatible audio source using an RCA patch cable.



VIP-802 Front Panel



VIP-802 Rear Panel

**Networked Channels:** Access to the networked audio is via two rear panel RJ-45 connectors. These connectors may be wired using standard RJ-45 terminations. Provided with the VIP-802 are two 3 foot RJ-45 patch cables and two RJ-45 "Biscuit Block" style connectors. You may easily connect to the signals by plugging one end of a patch cable to the VIP-802 and the other in to a "Biscuit Block" connector. Access to the signals is via screw terminal under the block cover. Signals are present on pairs of pins.

Pins	Wire Color	Signal
1,2	Blue & Orange	Audio Input
7,8	Brown & Grey	Audio Output
3,6	Black & Yellow	Contact Closure Input
4,5	Red & Green	N.O. Relay Closure Output

## Status Indicator Lights

The VIP-802 has 3 status indication lights on the front panel.

**STATUS:** Flashes then illuminates to indicate power.

**LINK:** Indicates 100 Mbit Ethernet connection when illuminated. No activity indicates 10 Mbit connection.

**ACT:** Indicator flashes to indicate network activity.

## TECHNICAL ASSISTANCE

When trouble is reported, verify power is being supplied to the unit and there are no broken connections. Check voltages for proper polarity to the one-way amplified speakers. If a spare unit is available, substitute a spare unit for the suspected defective unit.

Assistance in troubleshooting is available from the factory. Call (540) 563-2000 and press 1 for Technical Support or via email at support@valcom.com.

When requesting assistance, you should include all available information. It is strongly suggested that you go to the website and follow the trouble resolution procedure at <http://voip.valcom.com>.

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating your company name, address, phone number, contact person and the nature of the problem. Send the unit to:

### VALCOM LIMITED WARRANTY

Valcom, Inc. warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Valcom, Inc. indicates the validity of the claim;
2. the defect is not the result of damage, misuse or negligence after the original shipment;
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (a service charge parts and labor will be applied to units defaced or physically damaged);
4. freight charges for the return of products to Valcom are prepaid;
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (major repairs will be subject to additional charges for parts and labor).

This warranty is in lieu of and excludes all other warranties, expressed or implied, and in no event shall Valcom, Inc. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation or use of the product.

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.