

## VIP-814 QUAD NETWORKED STATION PORT

### INTRODUCTION

The VIP-814 Quad Networked Station Port allows most loop start terminal devices to be connected to a managed IP-based LAN/WAN.

### SPECIFICATIONS

#### Access Methods

- PBX, FXO Port
- POTS telephone set

#### Features

- RJ-45 for network connection
- 4 RJ-11 telephone connections
- 4 Relays with Form C contacts
- Generates Caller ID Signals
- Front panel activity LED
- Network activity LEDs
- 4 RENS
- 2.5mm jack for DC
- 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  
Output Impedance: 600 Ohms  
Output Level: -10dBm nominal  
Relay Current: 1 AMP @ 24VDC

#### Nominal Power Requirements

##### Via rear 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

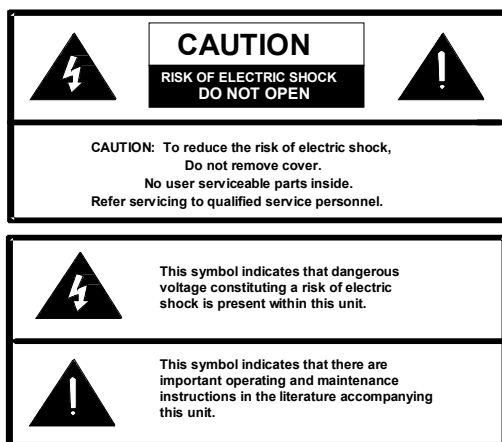
#### Packing List

Qty	Item
1	VIP-814
1	VIP-101 Setup CD
1	VSP Document
2	Mounting Brackets
4	Rubber Feet
6	Wood Screws
1	RJ-45 Patch Cable

### 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-814 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



## 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.***

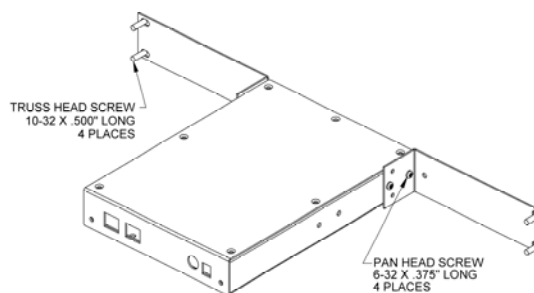
## Mounting

The VIP-814 is designed for wall, table or rack mounting.

**Table:** Provided with the VIP-814 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-814 to the wall.

**Rack:** Following the assembly drawing below, attach the two mounting ears to the VIP-814 unit. Using rack screws, mount the VIP-814 in an available 1U rack slot.



## Power Connections

The preferred method of powering a VIP-814 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 rear panel are made then connect the VIP-814 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 in to the VIP-814 via the barrel connector on the rear of the VIP-814.

## Network Connection

The VIP-814 has one CAT-5 RJ-45 network connector on the front panel.

Use the supplied CAT-5 patch cable to connect the VIP-814 to an Ethernet switch. If the Ethernet switch is 802.3af compliant the VIP-814 will draw power from it.

## Signal Connections

On the rear panel, the VIP-814 has 4 RJ-11 jacks for telephone connection and 2 terminal blocks for relay connections.

**Telephone Connections:** Connect standard analog telephones to the VIP-814 via the rear panel RJ-11 jacks labeled Phone 1, Phone 2, Phone 3 and Phone 4. Tip and Ring appear on pins 3 and 4 of these jacks.

**Relay Connections:** Access to the four form C relays is provided via two six pin screw terminal block. The relays are labeled K1, K2, K3 and K4. Each relay is brought out on three terminals. The common contact is the middle terminal with the normally closed contact on the left and the normally open contact on the right. Relay contacts are rated for 1A @ 24VDC.

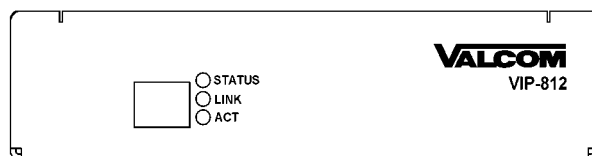
## Status Indicator Lights

The VIP-814 has 3 status indication lights on the front panel.

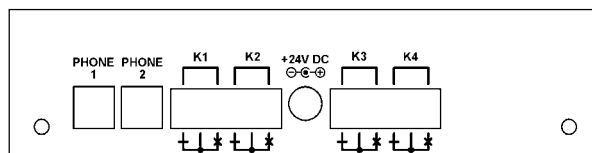
**STATUS:** Flashes then illuminates to indicate power.

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

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



Front View



Rear View

## 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](mailto:support@valcom.com).

When requesting assistance, you should include all available information. It is strongly suggested that you go to the web site 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, Inc.**  
**Repair & Return Dept.**  
**5614 Hollins Road**  
**Roanoke, Va. 24019-5056**

### 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 plus 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.