VIP-821A
NETWORKED TRUNK PORT

INTRODUCTION
The VIP-821A Networked Trunk Port allows most loop start terminal devices to be connected to a managed IP-based LAN/WAN.
SIP connectivity allows the VIP-821A to act as a gateway device between a SIP telephone system and the other Valcom paging systems, such as the MultiPath.

SPECIFICATIONS
Access Methods
- PBX, FXS Port
- SIP

Features
- RJ-45 for network connection
- 1 RJ-11 FX0
- 1 RJ-11 telephone failover connection
- Front panel activity LED
- Network activity LEDs
- 2.5mm jack for DC
- 802.3af compliant

Dimensions/Weight
- 1.38 H x 6.13" W x 5.25" D
  (3.50cm H x 15.6cm W x 13.33cm D)
- Weight: 1.25 lbs. (0.57 kg)

Nominal Specifications
Input Impedance:	600 Ohms
Input Level:	-10dBm
Output Impedance:	600 Ohms
Output Level:	- 10dBm nominal

Nominal Power Requirements
Via rear panel barrel connector:
Voltage:	24VDC
Current:	325mA

Via 802.3af PoE Ethernet Switch:
802.3af:	Class 3

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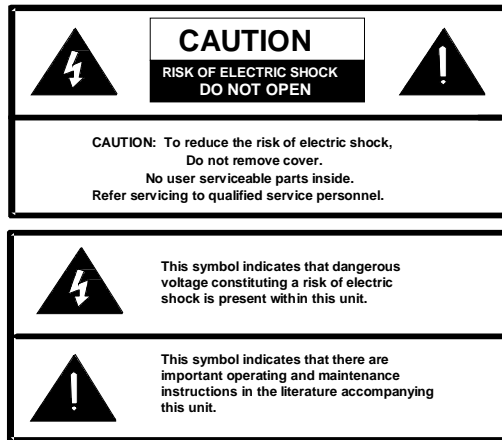|	
Temperature:	0 to +40° C
Humidity:	0 to 85% non-precipitating

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-821A 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 FXS or single line station 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

CAUTION

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-821A is designed for wall or table mounting.

Wall: Using the bracket and screws provided, secure the VIP-821A to the wall.

Table: Provided with the VIP-821A are four rubber pads. Peel the pads from their carrier backing and place at the four corners of the bottom of the unit.

Power Connections
The preferred method of powering a VIP-821A is via a power over Ethernet (PoE) switch meeting the 802.3af specification.

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

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-821A 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-821A via the barrel connector on the rear of the VIP-821A.

Network Connection
The VIP-821A has one RJ-45 network connector on the front panel.

Use a standard Ethernet patch cable to connect the VIP-821A to an Ethernet switch. If the Ethernet switch is 802.3af compliant the VIP-821A will draw power from it.

Signal Connections
On the rear panel, the VIP-821A has 1 RJ-11 jack for connection to a FXS circuit. 1 RJ-11 jack for a failover telephone connection.

FXO Connection: Connect a standard analog FXS circuit to the VIP-821A via the rear panel RJ-11 jack labeled **Line**. Tip and Ring appear on pins 3 and 4 of this jack.

Failover Connection: RJ11 ports labeled "phone" are failover ports that become active during device power failure. During power failure, an analog telephone set connected to a "phone" RJ11 port will have access to equipment connected to the affiliated "line" RJ11 port. Tip and Ring appear on pins 3 and 4 of these ports.

Relay Connections: Not used at this time.
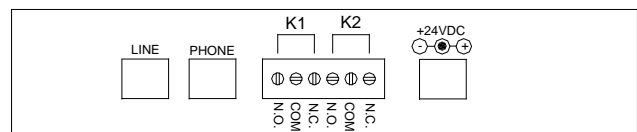
REAR VIEW

Status Indicator Lights

The VIP-821A has 3 status indication lights on the front panel.

STATUS: Flashes during normal operation and solid during system startup.

Green LED: (Link) Indicates Ethernet connection when illuminated.

Yellow LED: (Activity) Indicator flashes to indicate network activity.

Front View

Setup

Information specific to your application will need to be programmed into the VIP-821A using a computer. The PC used for programming should be connected to the same subnet as the VIP-821A. Setup will be done using the IP Solutions Setup Tool. Download the latest version of the free IP Solutions Setup Tool from Valcom web site at www.valcom.com/vipsetuptool.

TECHNICAL ASSISTANCE

When trouble is reported, verify power is being supplied to the unit and there are no broken connections.   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. General information and troubleshooting procedures are available on the Valcom website at www.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

Warranty

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

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