

**Vocia<sup>®</sup>**

**Page Active  
Relay Module  
(PARM-1)**

**Operation Manual**

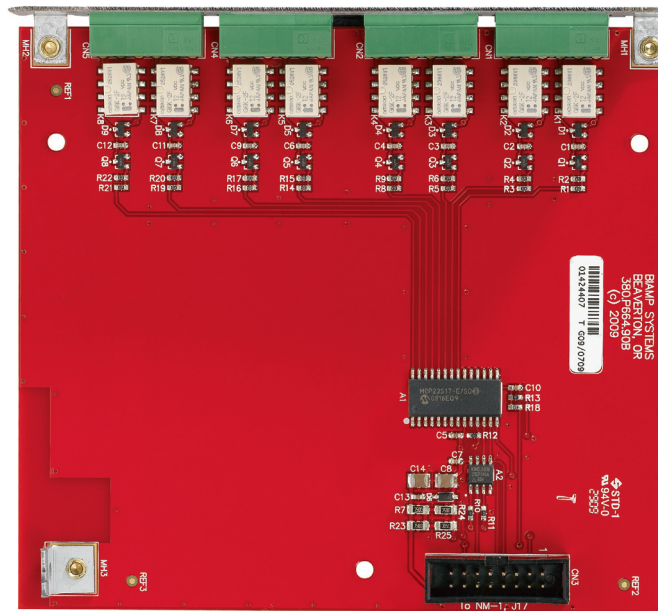
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## VOCIA PAGE ACTIVE RELAY MODULE (PARM-1)

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The PARM-1 Page Active Relay Module is an optional module for the VA-8600 amplifier. It provides a SPDT relay contact connection for each VA-8600 amplifier channel (total 8 relays). A relay will be energized when paging is active in the corresponding AM-600 amplifier channel.

### Features

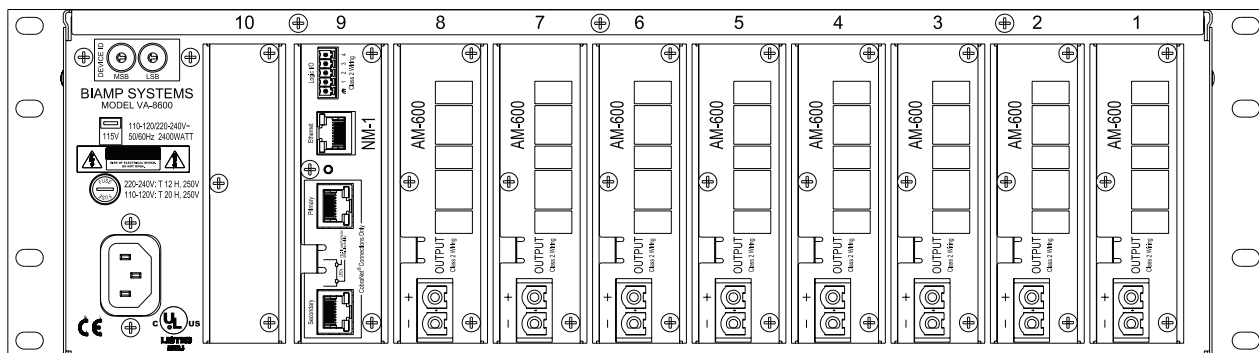
- Allows control of external devices during paging (e.g. attenuator over-ride relays)
- Suitable for the VA-8600 Option Slot
- Powered from and controlled by the VA-8600
- Eight Relay circuits
- Connections via 3.5mm pluggable screw terminal blocks

# VOCIA PAGE ACTIVE RELAY MODULE (PARM-1) INSTALLATION AND USE

## Installation and Use

To install a PARM-1, first fit a personal anti-static grounding strap and continue to wear it throughout the following procedure.

- Power down the VA-8600 by removing the power cord. Do not attempt to install the PARM-1 card in a powered VA-8600 unit. In order for the power supply capacitors to discharge, allow the amplifier power to remain off for at least five minutes before proceeding.
- Remove the VA-8600 top cover (6 x #4x1/4" self-tapping screws, 3 at front, 3 at rear).
- Viewing the rear of the VA-8600, locate module position ⑩ as seen in the drawing below. Remove the blank panel from this position (remove 3 x #4x1/4" self-tapping screws, slide panel upwards).



- Viewing the amplifier from the top, on the motherboard locate and remove the #4-32 machine screw marked 10 (near connector J10, AUX PWR).
- Fit the PARM-1 module (with ribbon cable attached) by sliding the rear panel into the position formerly occupied by the blank panel.
- Re-fit the three rear panel screws and re-fit the motherboard screw through the PARM-1 mounting bracket (marked MH3 on PARM-1 PCB).
- Locate the NM-1 network module adjacent to the newly fitted PARM-1 module and on the NM-1, locate connector J17 'BACK PANEL'.
- Plug the free end of the ribbon cable from the PARM-1 module into J17 of the NM-1 module, ensuring that pins are aligned and that the polarizing stripe on the cable is towards the top of the VA-8600 at both the NM-1 end of the cable and the PARM-1 end of the cable.
- Check that all screws are tight and re-fit the VA-8600 top cover.

Each PARM-1 module must be enabled in the Vocia software, under the VA-8600 Advanced Settings dialog window (under Options, check box 'PARM-1 Module Installed').

The PARM-1 module is now ready for use. When paging is active on an AM-600 amplifier channel, the PARM-1 relay associated with that channel will be energized.

# VOCIA PAGE ACTIVE RELAY MODULE (PARM-1) REAR PANEL

## Rear Panel

The rear panel of the PARM-1 has four 6-way connectors, each of which provides connections for two relays.

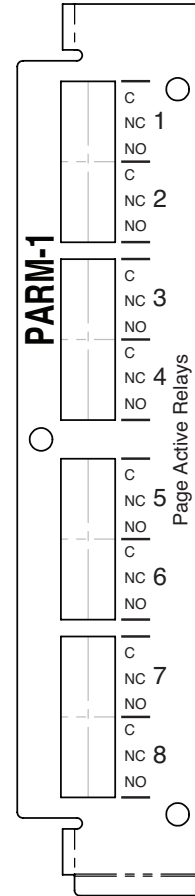
The relay numbers correspond to the AM-600 amplifier channel of that number (see amplifier channel numbers printed above the AM600 amplifier modules on the VA-8600 rear panel).

Connections are labeled C, NC and NO. Each relay connects C to NC (Normally Closed) when the relay is de-energized (no paging activity); and C to NO (Normally Open) when the relay is energized (during paging activity).

Connections are via 3.5mm pluggable screw terminal blocks (supplied with PARM-1).

If channel or device failover is enabled for amplifier channels associated with a PARM-1 module, relay contacts must be interconnected in order that the desired functionality is achieved from both the primary and secondary amplifier channels. For example, if channels 1 and 2 of a VA-8600 are configured as a failover-pair relay circuits 1 and 2 on the PARM-1 must be interconnected. If using Normally Open (NO) type connections, wire the C and NO terminals for each in parallel. If using Normally Closed (NC) type connections, wire the C and NC of Relay 1 in series with the C and NC terminals of Relay 2. Similarly if configuring two VA-8600 units for device failover, interconnect between primary and secondary units the PARM-1 relay for each used channel (i.e. Channel 1 relay of the Primary VA-8600 PARM-1 to Channel 1 relay of the Secondary VA-8600 PARM-1, etc).

Ensure that connections to the relays do not exceed the specified maximum ratings.



# VOCIA PAGE ACTIVE RELAY MODULE (PARM-1) SPECIFICATIONS

## SPECIFICATIONS

<b>Number of relays:</b>	8 (one per VA-8600 Amplifier channel)	<b>Base Dimensions:</b>	
		Height:	5.0" (128mm)
		Width:	1.2" (30.7mm)
		Depth:	4.65" (118mm)
<b>Relay Contacts:</b>		<b>Weight:</b>	approx. 3.5oz (100g):
Type:	Single 'Form C' voltage-free SPST change-over contact		
Load:	Resistive		
Maximum operating voltage:	125VAC, 60VDC		
Maximum operating current:	600mA AC, 1A DC		
		<b>Ambient Operating Temperature Range:</b>	18°F to 108°F (-8°C to 42°C)
		<b>Compliance:</b>	CE, RoHS

## VOCIA PAGE ACTIVE RELAY MODULE (PARM-1) WARRANTY

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BIAMP SYSTEMS IS PLEASED TO EXTEND THE FOLLOWING 5-YEAR LIMITED WARRANTY TO THE ORIGINAL PURCHASER OF THE PROFESSIONAL SOUND EQUIPMENT DESCRIBED IN THIS MANUAL

1. BIAMP Systems warrants to the original purchaser of new products that the product will be free from defects in material and workmanship for a period of 5 YEARS from the date of purchase from an authorized BIAMP Systems dealer, subject to the terms and conditions set forth below.
2. If you notify BIAMP during the warranty period that a BIAMP Systems product fails to comply with the warranty, BIAMP Systems will repair or replace, at BIAMP Systems' option, the nonconforming product. As a condition to receiving the benefits of this warranty, you must provide BIAMP Systems with documentation that establishes that you were the original purchaser of the products. Such evidence may consist of your sales receipt from an authorized BIAMP Systems dealer. Transportation and insurance charges to and from the BIAMP Systems factory for warranty service shall be your responsibility.
3. This warranty will be VOID if the serial number has been removed or defaced; or if the product has been altered, subjected to damage, abuse or rental usage, repaired by any person not authorized by BIAMP Systems to make repairs; or installed in any manner that does not comply with BIAMP Systems' recommendations.
4. Electro-mechanical fans, electrolytic capacitors, gooseneck microphones, cords connecting handheld microphones, hard-drives, displays, and normal wear and tear of items such as paint, knobs, handles, keypads and covers are not covered under this warranty. All server-based devices are warranted for 3 years only.
5. This warranty is in lieu of all other warranties, expressed or implied. BIAMP Systems disclaims all other warranties, expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose.
6. The remedies set forth herein shall be the purchaser's sole and exclusive remedies with respect to any defective product.
7. No agent, employee, distributor or dealer of BIAMP Systems is authorized to modify this warranty or to make additional warranties on behalf of BIAMP Systems. Statements, representations or warranties made by any dealer do not constitute warranties by BIAMP Systems. BIAMP Systems shall not be responsible or liable for any statement, representation or warranty made by any dealer or other person.
8. No action for breach of this warranty may be commenced more than one year after the expiration of this warranty.
9. BIAMP Systems shall not be liable for special, indirect, incidental, or consequential damages, including lost profits or loss of use arising out of the purchase, sale, or use of the products, even if BIAMP Systems was advised of the possibility of such damages.