DATA SHEET
VOCIA® VO-4e
ENHANCED OUTPUT DEVICE

The Vocia VO-4e is an enhanced networked audio output expansion device that allows the user to add four line-level and CobraNet® output channels to be added to a Vocia system. The VO-4e can be configured for channel-to-channel or device-to-device failover and uses comprehensive fixed-chain digital-signal processing within the device, including volume control, ducking, equalization, compressor/limiter, speaker crossover, delay, and output gain. Emergency messages for life-safety systems are stored in non-volatile memory. Two RJ45 connectors on the rear of the device provide redundant connectivity to process control data, audio and power over an Ethernet cable. In addition to this the VO-4e also has dual inputs for accepting power from an Auxiliary supply. The per-channel Paging relay provides a contact closure when Paging is active on an associated channel.

FEATURES

- Speaker line monitoring and ambient noise compensation supported using ELD-1 and ANC-1 devices
- Software-configurable signal processing including volume control, filters, compressor/limiting, delay, speaker equalization, and output level
- CobraNet audio/control with dynamic use of available bundles over single Ethernet cable
- Dual CobraNet ports for redundancy
- Rotary switches for unit identification
- Dual Ethernet ports for redundancy
- CobraNet audio output
- Channel-to-channel and device-to-device failover

- LED status and fault indication
  - o Chassis Fault, Activity and Status
  - o PoE Power
  - o Aux Power
  - o Output Channel Amp Fault, Activity and Signal Present
- Local storage of Emergency Messages in non-volatile memory
- Four Page Active Relays, Control Inputs and Control Outputs
- IP30 Compliant
- CE marked and RoHS compliant
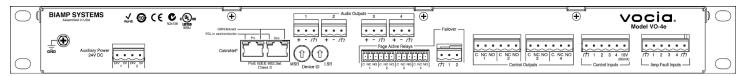- Covered by Biamp Systems' 5-year warranty

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ARCHITECTS & ENGINEERS SPECIFICATION

The audio output device shall be designed exclusively for use with Biamp® Vocia systems. It shall support audio and monitoring connections to 3rd party amplifiers. It shall support the use of Vocia ANC-1 ambient noise compensation devices and ELD-1 end of line devices for automatic level control and speaker line supervision monitoring. It shall support CobraNet outputs to supported 3rd party CobraNet enabled amplifiers and/or audio/digital signal processors such as Biamp AudiaFLEX and Tesira. The audio output device shall support relay input connections for supervision of 3rd party amplifiers or powered speakers. It shall be CE marked and shall be compliant with the RoHS directive. Warranty shall be five years. The output device shall be a Vocia VO-4e.

VOCIA VO-4e SPECIFICATIONS

Network Connection:	Dual RJ45 with shielded Ethernet (CAT5, CAT5e, CAT6, or CAT 7)	**Page Active Relays & Control Out Relays:**	
Network Audio:	20-bits, 48kHz, 5-1/3 ms (fixed)	**Type:**	Single Form C voltage free change over contact
Memory:	5.625 MB	**Max Operating Voltage:**	125V AC, 60V DC
Nominal Output Level:	-10dBu, 0dBu, +4dBu (selectable)	**Max Switching Capacity:**	37 VA
Maximum Output Level:	+22dBu	**Min Operating Load:**	10µA 10mV DC
Maximum Output Load:	2kΩ	**Dimensions:**	
Dynamic Range:	>100dB	**Height:**	1.75 inches (44.5 mm)
Frequency Response (20Hz-20kHz):	± 1dB	**Width:**	19 inches (483 mm)
THD+N (20Hz-10kHz):	<0.05%	**Depth:**	10 inches (254 mm)
Power:		**Weight:**	6.6 lbs. (3 kg)
PoE:	802.3af Class 3 802.3at Type 1 Class 3	**Environment:**	
		Ambient Operating Temperature Range:	23–104° F (-8 – 42° C)
Aux Voltage Nominal:	24V DC; <100mV Ripple (Max 15W)	**Humidity:**	0 – 95% non-condensing
Fault & Control Input Ports:		**Altitude:**	0 – 10,000 Feet (0 - 3000 Meters) MSL
Assert:	Voltage free contact to ground	**Compliance:**	
Un-assert:	Open Circuit		FCC Part 15B (USA)
Input Impedance:	100kΩ		CE marked (Europe)
Max. short circuit current:	1mA		RCM (Australia)
			RoHS Directive (Europe)

VOCIA VO-4e BACK PANEL

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