

DATA SHEET

VOCIA® VA-4030e

AMPLIFIER



The VA-4030e is a digital networked four-channel amplifier for use in Vocia systems. It is capable of delivering continuous audio power at 30 Watts RMS per channel. The VA-4030e is CobraNet® enabled for audio and control with dynamic use of bundles. It has local analog inputs and dual power supply. Two RJ-45 connectors on the rear panel provide redundant CobraNet connectivity to the Vocia network. The on-board DSP provides comprehensive fixed-chain, digital signal processing within the device. In addition, emergency messages are stored in local non-volatile memory. Page active relay outputs provide a contact closure per channel when paging is active on the channel. The amplifier offers low impedance and constant voltage outputs. The VA-4030e also has comprehensive failover capability with device-to-device, all-to-one, and channel-to-channel failover.

FEATURES

- Four channels of 30W RMS per channel
- Transformer coupled outputs, low impedance (4 or 8Ω) or 25V, 70V or 100V (hardware selectable)
- Comprehensive failover
 - Device-to-device
 - All-to-1 channel
 - 1:1 channel
- Supports Page Active Relay (PAR), ELD-1 and ANC-1
- Local non-volatile storage of emergency messages
- Ground fault detection
- Software-configurable signal processing including volume control, filters, compressor/limiting, delay, speaker equalization and output sensitivity
- CobraNet audio/control with dynamic use of available bundles
- LED status and signal indication
- Ground fault detection
- Local background source support with single mic/line analog audio input for each channel (gain adjustable, switchable phantom power)
- Dual power supply
 - AC Mains
 - Single or Dual 24V DC inputs
- Dual Ethernet ports for redundancy
- Rotary switches for device identification
- Rack mountable (2RU)
- EN 54-16 certified, CE marked, UL listed and RoHS compliant
- Covered by Biamp Systems' 5-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The networked amplifier shall be designed exclusively for use with Biamp® Vocola® systems. The amplifier shall support 4 channels of 30 Watts RMS per channel and 25V, 70V and 100V transformer-coupled capability or low-impedance (4 or 8Ω) operation. The amplifier shall provide control data and digital audio over CobraNet®. The amplifier shall provide a single analog mic/line background source input per channel. The amplifier shall provide dual Ethernet ports for redundant network connection. The amplifier shall provide dual power supplies (mains and 24V DC). The amplifier shall provide front panel LED indication of amplifier chassis and channel status. Additionally software monitoring features will include per channel ground fault detection, short circuit and output fault monitoring. The amplifier shall be rack mountable (2RU) and feature software-configurable signal processing including volume control, filters, compressor/limiting, delay, speaker equalization and output sensitivity. The amplifier shall support channel-to-channel, all-to-one, and chassis-to-chassis failover. The amplifier is EN 54-16 certified, shall be CE marked and UL listed and shall be compliant with the RoHS directive. Warranty shall be five years. The amplifier shall be a Vocola VA-4030e.

VOCIA VA-4030e SPECIFICATIONS

Network Connection:	RJ-45 with shielded Ethernet (CAT5, CAT5e, CAT6 or CAT7)	Power:	100-240VAC; 50/60Hz Single or Dual 24V DC source (not supplied)
Memory:	5.625 MB	Environment:	
Inputs:	20 bits, 48 kHz, 5-1/3 ms (fixed)	Ambient Operating Temperature Range:	23-104° F (-5 - 40° C)
Frequency Response (40Hz - 20kHz):	± 2dB	Humidity:	0 - 95% non-condensing
Signal to Noise Ratio:	> 88 dB, unweighted	Altitude:	0-10,000 Feet (0-3000 Meters) MSL
THD+N:		Compliance:	
50Hz-100Hz:	< 0.5%		EN 54-16 certified
100Hz-10kHz:	< 0.3%		FCC Part 15B (USA)
Total Output Power:	4 x 30W RMS, 120W maximum		CE marked (Europe)
Overall Dimensions:			UL and C-UL listed (USA and Canada)
Height:	3.25 inches (82.5 mm)		RCM (Australia)
Width:	19.0 inches (483 mm)		EAC (Eurasian Customs Union)
Depth:	14.2 inches (361 mm)		RoHS Directive (Europe)
Weight:	26.2 lbs (11.9 kg)		RINA (Italy)
			EN 60849, AS 60849 verified

VOCIA VA-4030e BACK PANEL

