

# DATA SHEET

## VOCIA® VA-2060e

### AMPLIFIER



The VA-2060e is a digital networked two-channel amplifier for use in Vocia systems. It is capable of delivering continuous audio power at 60 Watts RMS per channel. The VA-2060e 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-2060e also has comprehensive failover capability with device-to-device and channel-to-channel failover.

## FEATURES

- Two channels of 60W RMS per channel
- Transformer coupled outputs, low impedance (4 or 8Ω) or 25V, 70V or 100V (hardware selectable)
- Comprehensive failover
  - o Device-to-device
  - o All-to-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
- Local background source support with single mic/line analog audio input for each channel (gain-adjustable, switchable phantom power)
- Dual power supply
  - o AC Mains
  - o 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, and RoHS compliant
- Covered by Biamp Systems' 5-year warranty

## ARCHITECTS & ENGINEERS SPECIFICATION

The networked amplifier shall be designed exclusively for use with Biamp® Vocia® systems. The amplifier shall support 2 channels of 60 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 and chassis-to-chassis failover. The amplifier shall be EN 54-16 certified, CE marked, and shall be compliant with the RoHS directive. Warranty shall be five years. The amplifier shall be a Vocia VA-2060e.

## VOCIA VA-2060e SPECIFICATIONS

<b>Network Connection:</b>	RJ-45 with shielded Ethernet (CAT5, CAT5e, CAT6 or CAT7)	<b>Power:</b>	100-240VAC; 50/60Hz Single or Dual 24V DC source (not supplied)
<b>Memory:</b>	5.625 MB	<b>Environment:</b>	
<b>Inputs:</b>	20 bits, 48 kHz, 5-1/3 ms (fixed)	<b>Ambient Operating Temperature Range:</b>	23-104° F (-5 - 40° C)
<b>Frequency Response (40Hz - 20kHz):</b>	± 2dB	<b>Humidity:</b>	0 - 95% non-condensing
<b>Signal to Noise Ratio:</b>	> 88 dB, unweighted	<b>Altitude:</b>	0-10,000 Feet (0-3000 Meters) MSL
<b>THD+N:</b>		<b>Compliance:</b>	
<b>50Hz-100Hz:</b>	< 0.5%		EN 54-16 certified
<b>100Hz-10kHz:</b>	< 0.3%		FCC Part 15B (USA)
<b>Total Output Power:</b>	2 x 60W RMS, 120W maximum		CE marked (Europe)
<b>Overall Dimensions:</b>			RCM (Australia)
<b>Height:</b>	3.25 inches (82.5 mm)		EAC (Eurasian Customs Union) RoHS
<b>Width:</b>	19.0 inches (483 mm)		Directive (Europe)
<b>Depth:</b>	14.2 inches (361 mm)		RINA (Italy)
<b>Weight:</b>	24.9 lbs (11.3 kg)		EN 60849, AS 60849 verified

## VOCIA VA-2060e BACK PANEL

