

# DATA SHEET

## VOCIA® VA-2060

### AMPLIFIER



The VA-2060 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-2060 is CobraNet® enabled for audio and control with dynamic use of bundles. 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-2060 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
- Software-configurable signal processing including volume control, filters, compressor/limiting, delay, speaker equalization and output sensitivity
- LED status and signal indication
- CobraNet audio/control with dynamic use of available bundles
- 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 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 dual Ethernet ports for redundant network connection. The amplifier shall provide front panel LED indication of amplifier chassis and channel status. Additionally software monitoring features shall include per channel short circuit detection 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, UL listed and shall be compliant with the RoHS directive. Warranty shall be five years. The amplifier shall be a Vocola VA-2060.

## VOCIA VA-2060 SPECIFICATIONS

|   |  |   |                                     |
|---|--|---|-------------------------------------|
| <b>Network Connection:</b>                | RJ-45 with shielded Ethernet (CAT5, CAT5e, CAT6 or CAT7) | <b>Power:</b>                               | 100-240VAC; 50/60Hz                 |
| <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>                |  |   | UL and C-UL listed (USA and Canada) |
| <b>Height:</b>                            | 3.25 inches (82.5 mm)                                    |   | RCM (Australia)                     |
| <b>Width:</b>                             | 19.0 inches (483 mm)                                     |   | EAC (Eurasian Customs Union)        |
| <b>Depth:</b>                             | 14.2 inches (361 mm)                                     |   | RoHS Directive (Europe)             |
| <b>Weight:</b>                            | 24.7 lbs (11.2 kg)                                       |   | RINA (Italy)                        |
|   |  |   | EN 60849, AS 60849 verified         |

## VOCIA VA-2060 BACK PANEL

