

# DATA SHEET

## VOCIA® VA-8150CV

### NETWORKED AMPLIFIER



The Vocia® VA-8150CV is a digital networked eight-channel amplifier for use in Vocia systems. It is capable of delivering audio power at 150 Watts per channel. The VA-8150CV 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 onboard 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 also has comprehensive failover capability with device-to-device and channel-to-channel failover.

#### FEATURES

- Eight channels of 150W per channel
- Page active relay
- Comprehensive failover
- Extended audio delay
- CobraNet audio/control with dynamic use of available bundles
- Flexible line monitoring
- Dual Ethernet ports for redundancy
- Dual power inputs (100-240V AC and 48V DC)
- Rack mountable (2RU)
- DSP functionality includes: BGM, regular and emergency paging, emergency messages and ANC support
- CE marked, UL listed and RoHS compliant
- Covered by Biamp System's 5-year warranty

#### ARCHITECTS & ENGINEERS SPECIFICATION

The networked amplifier shall be designed exclusively for use with Biamp Vocia systems. The amplifier shall support 8 channels of 150 Watts per channel and 70V or 100V constant voltage outputs. 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 have 100-240V AC power supply and dual 48V DC input. The amplifier shall provide front panel LED identification of amplifier failure, signal present, clip present, fan stuck rotor fault, temperature fault and provide additional software monitoring features including speaker line 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 extended audio delay of up to 32 seconds per channel. The amplifier shall be Class-D. The amplifier shall support channel-to-channel and chassis-to-chassis failover. The amplifier shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be five years.

The amplifier shall be the Vocia VA-8150CV.

## VOCIA VA-8150CV SPECIFICATIONS

<b>Channels:</b>	8 – fixed	<b>Power:</b>	AC: 100-240V AC 50Hz/60Hz DC: Dual 48V
<b>Watts per channel:</b>	150W 70V/100V constant voltage	<b>Inputs:</b>	CobraNet 20 bits, 48kHz, 5-1/3ms (fixed)
<b>Total output power:</b>	8x150W	<b>Connection:</b>	Dual RJ-45 inputs for network redundancy
<b>THD + N (20Hz-20kHz, at rated power):</b>	< 0.3%	<b>Environmental:</b>	
<b>Frequency Response (20Hz-20kHz):</b>	+/- 1dB	<b>Ambient Operating Temperature:</b>	-8°C - 42°C
<b>Signal-to-Noise Ratio (20Hz-20kHz, unweighted at rated power):</b>	> 100dB	<b>Humidity:</b>	0%-95% non-condensing
<b>Intermodulation distortion (SMPTE at continuous power):</b>	< 0.35% at 100V <0.4% at 70V	<b>Altitude:</b>	0-3000m
<b>Inter-channel Isolation (20Hz-20kHz at rated power):</b>	> 80dB	<b>Line Monitoring:</b>	Passive end of line monitoring (PLD-2) Active end of line monitoring (ELD-1) Impedance monitoring Pilot tone generation
<b>Amplifier Topology:</b>	Class D	<b>Extended Audio Delay:</b>	Up to 32 Seconds (10km) per channel
<b>Failover Support:</b>	Chassis or Channel 1:1, 3:1, 7:1	<b>Compliance:</b>	EN 54-16 certified UL and C-UL listed (USA and Canada) FCC Part 15B (USA) CE Marked (Europe) RCM (Australia) RoHS Directive (Europe)
<b>Overall Dimensions:</b>			
<b>Height:</b>	3.5 inches (88.9 mm)		
<b>Width:</b>	19.0 inches (483 mm)		
<b>Depth:</b>	17.5 inches (444 mm)		
<b>Weight:</b>	24.0 lbs (10.9 kg)		

## VOCIA VA-8150CV BACK PANEL

