# AoIP AUDIO AMPLIFIER MODEL : ELA Series

#### DESCRIPTION

The ELA series of network-able audio power amplifiers has the same high-

fidelity, high-efficiency output stage as ComTrol's proven analogue CA-500 series, but a brand new processor-based front end. This enables ELA units to operate in Ethernet/ IP networks, allowing PA/GA nodes to be distributed and stacked to give the required sound power where it is needed. Two Ethernet ports are available for different subnets which can be configured for network redundancy. Together with ComTrol's Digital Audio Router, ELA amplifiers allow dependable PAGA systems to be deployed with maximum flexibility and simplicity.

Amplifier and speaker line supervision is integrated, requiring no external unit, and protection is provided against overload, short circuit and overheat. Each unit is monitored continuously with status changes displayed on a front panel LCD or remotely. The ELA has a change-over facility for standby amplifier switching with relays are included in the unit. The ac power supply is universal, accepting 100-240Vac at 47-63Hz with power factor correction.

Initial setup and configuration can be easily done using a PC or workstation attached to the same subnet.

#### **FEATURES**

- Continuously rated 500W RMS and 300W RMS versions
- Integrated speaker line monitoring
- Click and Pop free operation during start-up and shutdown
- Industry standard 2-U, 19-inch enclosure
- Audio input/output galvanic isolation
- Temperature controlled cooling fan
- N+1 hot-standby amplifier protection
- Supports FE and GBE Ethernet networks
- A to D conversion: up to 32 bits per sample
- Lowest latency available from any networking technology
- Two Ethernet Ports for Redundancy



# **ELECTRICAL CHARACTERISTICS**

Power Requirements	Values
AC Power Supply Input Voltage	96 to 264 V AC, 50/60 Hz
DC power Supply Input Voltage	48 V DC
Speaker Amplifier	
Audio Power Output	300 Watts/ 500 Watts
Duty Cycle	Continuous
Overall Efficiency	86%
Frequency Response (±3dB)	300 - 19 KHz
Total Harmonic Distortion	Less than 0.5% rated power @ 1 KHz
Protection	Overload, Input overdrive, Over-temperature, Clipping
Voltage Output	50V AC, 70 VAC, 100 VAC
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Digital Audio	100
Digital Audio Format	I2S
Audio transport Format	Dante Audio over IP
Sample Rates	44.1/48/88.2/176.4/192 kHz
Sample Bit Depth	16,24 or 32 bit per sample
IP Network Interface	
Connector	Dual RJ-45
Speed	100/1000Mbps
Network Configuration	Switched or Redundant
IP Address	Static/ Dynamic/ Automatic
Layer 3 Switching	Yes
Serial Data Interface	
Communication Standard	RS-485, isolated, 120 Ohms - balanced
Transmission Speed	9600 Kbps within 1200 meters (point-point)
Number of Port(s)	One
Connector	Euroblock

## **ENVIRONMENTAL RATINGS**

IP Rating	IP-31
Area Rating	Safe Area
Operating Temperature	5 ° C to 65 ° C
Relative Humidity	5-95% Non-condensing

## MECHANICAL CHARACTERISTICS

Enclosure Dimensions	88 x 430 x 367 (H x W x D, in mm)
Weight	15 Kg
Material and Protective coating	Mild Steel, Powder coated

#### ORDERING INFORMATION

Model	Description
ELA300	300 Watts
ELA500	500 Watts

