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ENA2200-AC2

Exigo Network Amplifier 2 x 200W AC



- ✓ 2x 200 watt continuous GA power
- ✓ Power efficient class D technology
- ✓ Powered by 100-240 VAC
- ✓ Redundant Ethernet connections
- ✓ Digital audio processing
- ✓ Loudspeaker line monitoring
- ✓ Input for backup amplifier
- ✓ Tick tone generator
- ✓ 3 configurable control outputs
- ✓ 2 configurable control inputs
- ✓ One Channel Mode / Bridging outputs

 Public Address  SIP  Onboard communication  Exigo

Description

The Exigo Network Amplifier (ENA), housed in a compact 2U 19" chassis, is specifically designed for use in marine, offshore, transportation and other demanding environments. Employing state-of-the-art class D amplifier technology ensures both high power efficiency and exceptional audio quality. With two network connections per amplifier, redundant cabling is facilitated, and compatibility with standard network equipment widens the range of options.

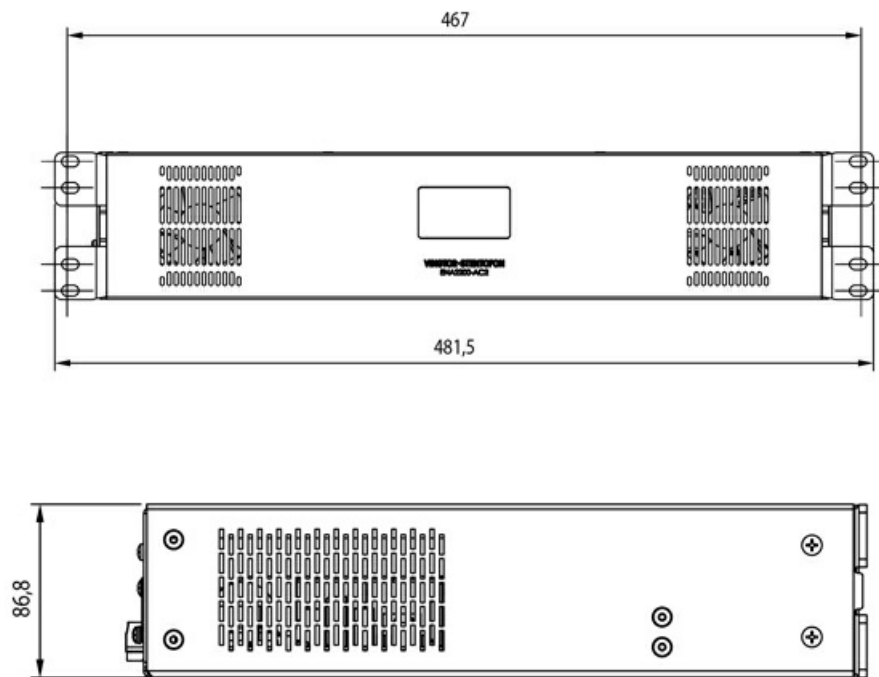
ENA models can function in three modes. In ICX-AlphaCom mode they add decentralized PA for Paging and operational broadcast functions to our Intercoms solution. In SIP mode they serve as a straightforward and cost-effective Public Address amplifier for use with IP-based audio platforms. Exigo mode is tailored to our Marine and Energy markets for robust fully-networked PA/GA systems. In all modes Digital audio processing and maintenance are handled by the embedded CPU and DSP, enabling advanced audio processing capabilities like automatic gain control and configurable equalization over IP and at the amplifier.

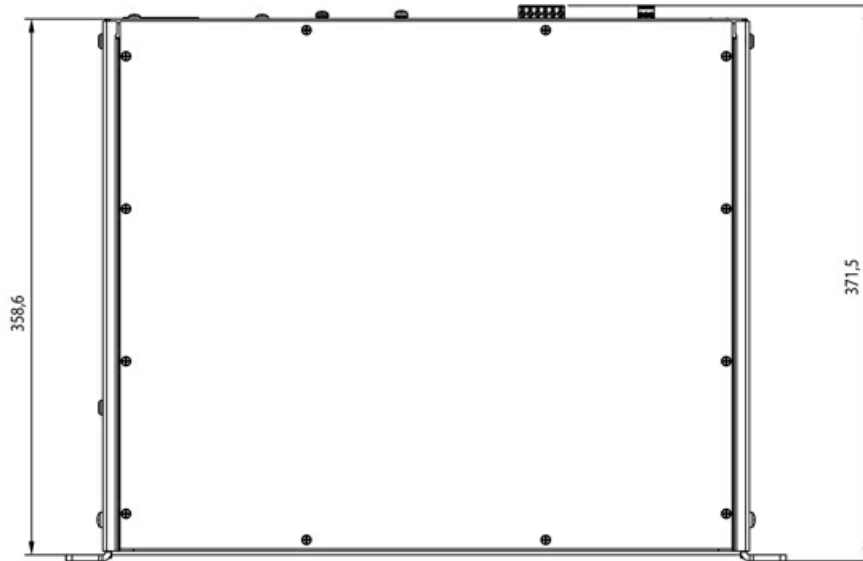
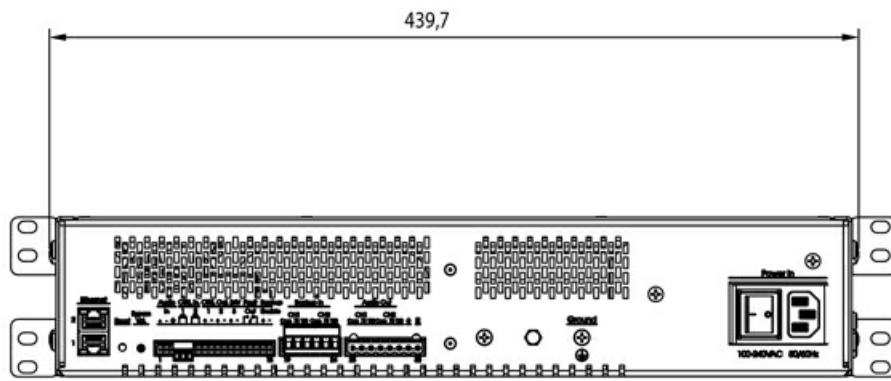
ENA incorporates comprehensive self-monitoring, surveying speaker lines, control inputs, power supplies, temperature, network connections, and critical operational processes. All speaker lines can with amplifiers built-in circuitry and software be monitored for line faults, including shorts, ground faults, and significant load changes. Faults are reported to the EXIGO system controller or via SNMP and are locally indicated on the amplifier.

The amplifier features "One Channel Mode," where the two loudspeaker channels play identical audio in phase. Furthermore, the two amplifier channels can be bridged to provide a single 400W load*. In "Two Channel Mode" the amplifier allows for the use of two separate loudspeaker circuits with sperate broadcasts, each with a maximum 200W output. *) Note: Speaker line surveillance not supported in bridged outputs setup.

Configurable control inputs/outputs and audio inputs can be utilized locally or controlled by the system, such as using audio input for background music. The audio line input can also be configured in a Hardware Bypass mode, forwarding audio to the 100V channels even without a server available, adding redundancy and flexibility to the amplifier's functionality.

Technical Dimensions





Specifications

MECHANICAL

| | |
|--------------------|----------------------------|
| Dimensions (HxWxD) | 87 x 482 x 372 mm / 2HU |
| Weight | 11.2 kg |
| Shipping Weight | 12.5 kg |
| Mounting | 19" Rack, 2HU |
| Color | Black |

USER INTERFACE

| | |
|----------------|----------------------------------------------------------------|
| LED Indicators | Power, Amp Fault, Line Fault, Gnd Fault, 2x LED VU meter |
|----------------|----------------------------------------------------------------|

ENVIRONMENTAL

| | |
|-------------------------------------|---------------------------------|
| Operating temperature | -15 °C to +55 °C |
| Operating humidity | 15% to 95% (non- condensing) |
| Storage temperature | -40°C to +70°C |
| Storage humidity | 10% to 95% (non- condensing) |
| Air pressure | 700 hPa to 1300 hPa |
| IP rating | IP-20 |
| Magnetic Compass Safe Distance | 180 cm |
| IEC 60945 Environmental Category | Protected |
| Operator & Reading Distance | 0,71M |

ELECTRICAL

Connector

Supply voltage** 100 – 240 VAC, 47-63 Hz

Inrush current Max 18A

Power consumption* 550W (minimum 35W, maximum 850W)

* Power consumption under rated conditions on outputs, all control I/O activated

** Power cord not included

AUDIO OUTPUTS

Output power (100V/70V) 2 x 200 Watt GA power, continuous @ 55 °C

Output line 100 volt, 70 volt

Frequency response 200 Hz to 19 kHz ± 3 dB

Audio codec G711, G722, PCM L16/48kHz

SNR >80 dB

THD < 0.5% @ 1 kHz

Rated load resistance 100V: 50 Ω 70V: 25 Ω

Rated load capacitance 470 nF

NETWORK

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Ethernet | 2 x 10BASE-T, 100BASE-TX, Auto negotiation, Auto MDIX |
| Protocols | Protocols IPv4 (with DiffServ), TCP, UDP, HTTPS, TFTP, RTP, DHCP, SNMP, STENTOFON CCoIP® , NTP |
| LAN Protocols | VLAN(IEEE 802.1pq), Network Access Control (IEEE 802.1x), STP (IEEE 802.1d) |
| Management and operation | HTTP/HTTPS (Web configuration) DHCP and static IP Remote automatic software upgrade Centralized monitoring |

LINE INPUT

| | |
|---------------------|------------------------------|
| Frequency response | 100 Hz – 20 kHz |
| Audio codec | G711, G722, PCM L16/48kHz |
| Nominal input level | 100 mVRMS – 1 VRMS |
| SNR | >80 dB |
| CMRR | >130 dB |
| Input impedance | 14 k Ω |

CONTROL INPUTS AND CONTROL OUTPUTS

| | |
|---------------------------------------|----------------------------------------------------------------|
| Control Inputs | 2 |
| Type | Closing contact, monitored |
| Control Outputs | 3 |
| Type | 24 VDC \pm 10%, 200 mA, monitored |
| Fault relay | 1 |
| Fault relay outputs: (NO, COM, NC) | Max recommended levels: 100VDC/0.4A, 24VDC/3A, 125VAC/3A |
| Backup amplifier input | enable / disable |

CERTIFICATIONS

| | |
|-------------------|-------------------------------------------|
| Immunity | EN 60945, EN 61000-6- 1 , EN 61000-6-2 |
| Emissions | EN 60945, EN 61000-6- 3, EN 61000-6-4 |
| Rail Applications | EN 50121-4 |