

1023102410

ENA2400-AC

Exigo Network Amplifier 2 x 400W AC

This Item is Spare Part Only and cannot be sold for new projects!



DISCONTINUED



 ICX-AlphaCom  Exigo

Description

- ✓ 2x 400 watt continuous GA effect
- ✓ 2x 400 watt PA effect
- ✓ Power efficient class D technology
- ✓ Powered by 110 - 230 VAC
- ✓ Redundant Ethernet connections
- ✓ Digital audio processing, equalizer and audio delay
- ✓ Loudspeaker line monitoring
- ✓ Input for backup amplifier
- ✓ Tick tone generator
- ✓ 6 configurable control outputs

The Exigo Network Amplifier is designed for use in marine, offshore and other demanding environments. The amplifier utilizes state-of-the-art class D amplifier technology to ensure high power efficiency and superb audio quality.

The Exigo Network Amplifier is part of the Exigo PA/GA system, which is based on standard Ethernet network and digital processing. Each amplifier has two network connections, allowing for redundant cabling between the amplifier and the network. Using standard network equipment also allows for a much wider selection of standard network equipment.

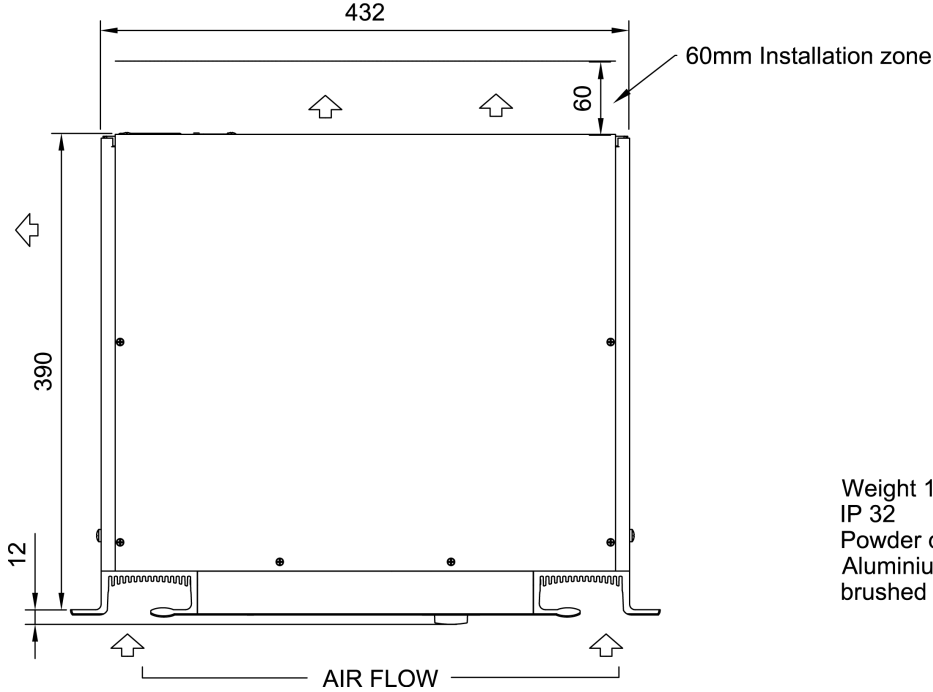
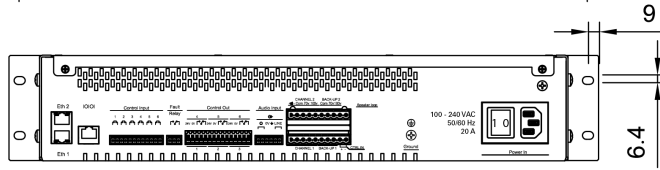
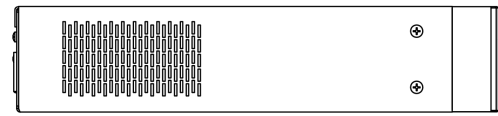
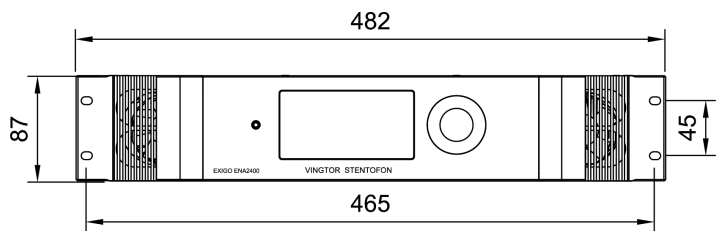
The digital audio processing and maintenance of the amplifier is done with the embedded CPU and DSP. These components allow the amplifier to do advanced audio processing such as automatic gain control and equalizing while also maintaining a robust connection to the system controllers.

The complete amplifier is self-monitoring and this includes advanced monitoring of the speaker lines and internal system. The audio output channels can be monitored for line faults such as shorts, ground faults and large load changes. In addition, up to 10 intelligent Line End Transponders (ELTSI) can be placed on the speaker lines for additional accuracy in the line monitoring. The amplifier also monitors control inputs, power supplies, temperature, network connections and every other components required for operation of essential services. Faults will be reported to the system controller, but will also be indicated locally on the amplifier.

The amplifier operates from a 115/230 VAC supply and is designed to survive minor interruptions to the power supply.

The amplifier's configurable control inputs/outputs and audio inputs can be used locally by the amplifier (e.g. for PTT and audio from a handheld microphone) or can be controlled by the system (e.g. audio input for background music).

Technical Dimensions



Weight 15.0 kg
 IP 32
 Powder coated, fine structure, Black RAL 9011
 Aluminium extruded front and handles -
 brushed surface, black anodized

Specifications

MECHANICAL

| | |
|--------------------|-------------------|
| Dimensions (HxWxD) | 87 x 482 x 390 mm |
| Weight | 13.5 kg |
| Shipping Weight | 15 kg |
| Mounting | 19" Rack, 2HU |
| Color | Black |

USER INTERFACE

| | |
|------------|---|
| Display | 3.5" QVGA Color TFT LCD |
| Button | Rotary selector button with push-to-select |
| Indicators | Power, Fault, Disabled |

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-32 |

ELECTRICAL

| | |
|--------------------|---|
| Connector | V-lock, IEC 60320-1 C14 compliant |
| Nominal voltage** | 110 – 230 Vac, 47-63 Hz |
| Inrush current | Max 25A |
| Power consumption* | P _{nom} : ≤ 35 W (idle) P _{max} : ≤ 1300 W |
| | * Power consumption calculated with continuous 6A 800 watt load on outputs, 10 LET units, all control I/O activated |
| | ** Power cord not included |

AUDIO OUTPUTS

| | |
|-------------------------|---|
| Output power (100V/70V) | 2 x 400 Watt GA power, continuous @ 55 °C |
| 25V (8 ohm) output | 2 x 50 watt alarm, continuous @ 50 °C |
| Output line | 100 volt, 70 volt and 8 Ohm |
| Frequency response | 200 Hz to 20 kHz ±3 dB |
| Audio codec | G711, G722, PCM L16/48kHz |
| SNR | 86 dB in test-modus, A-weighted noise |
| THD | < 0.5% @ 1 kHz |
| Rated load resistance | 100V: 25 Ω 70V: 12,5 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 | 80 Hz – 20 kHz |
| Audio codec | G711, G722, PCM L16/48kHz |
| Nominal input level | 100 mVRMS – 1 VRMS |
| SNR | 80 dB |
| CMRR | 45 dB |
| Input impedance | 600 Ω / 10 k Ω (selectable) |

MICROPHONE INPUT

| | |
|------------------------------|--|
| Frequency response | 80 Hz – 20 kHz |
| Audio codec | G711, G722, PCM L16/48kHz |
| Nominal input level | 1 mVRMS – 100 mVRMS |
| SNR | 80 dB |
| CMRR | 45 dB |
| Input impedance | 600 Ω / 10 k Ω (selectable) |
| Phantom supply (optional) | 12 VDC \pm 10% @ 15 mA (IEC 61938, P12) |

CONTROL INPUTS AND CONTROL OUTPUTS

| | |
|--------------------------------|--|
| Control Inputs | 6 |
| Type | Closing contact, monitored |
| Control Outputs | 6 |
| Relay outputs: (COM, NO,NC) | Max recommended levels: 3A, 100Vdc, 125Vac, switching 60W/125VA |
| 24 V outputs | 24 VDC \pm 10%, 200 mA, monitored |
| Fault relay | 1 |
| Relay outputs: (COM, NO,NC) | Max recommended levels: 3A, 100Vdc, 125Vac, switching 60W/125VA |

CERTIFICATIONS

| | |
|-----------|---|
| Immunity | EN 60945, EN 61000-6-1 |
| Emissions | EN 60945, EN 61000-6-3, EN 61000-6-4 |
| Safety | EN 60065, IEC 60529 |

Accessories



EAM-400

ENA2400 Amplifier Module

Item Number: 1023922400



ELTSI-1

Exigo Industrial Line End
Transponder

Item Number: 1023540000



Product image
not available

EPMA800AC

ENA2400-AC, ENA2400-AC2
Spare Power Supply

Item Number: 1023912100