

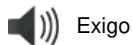
1023000200

ESC1-ICX-PACK

Exigo System Controller ICX Package



- ✓ Control and routing of audio channels
- ✓ 115 - 230 VAC
- ✓ Ethernet connections
- ✓ Digital audio processing
- ✓ Receives, handles and stores fault messages from the system
- ✓ Interface to PABX and iPBX
- ✓ Interface to telecom management, safety, automation and security systems
- ✓ Voice message storage
- ✓ Programmable alarm generator
- ✓ 6 configurable control outputs
- ✓ 6 configurable control input



Description

The system controller is based on IP technology, giving it extreme flexibility, superb audio quality and multiple possibilities for integration. The system controller handles routing and prioritization of up to 32 simultaneous audio channels in the system where audio can be distributed from up to 150 audio inputs to up to 250 zones.

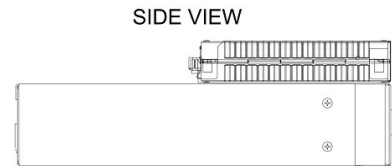
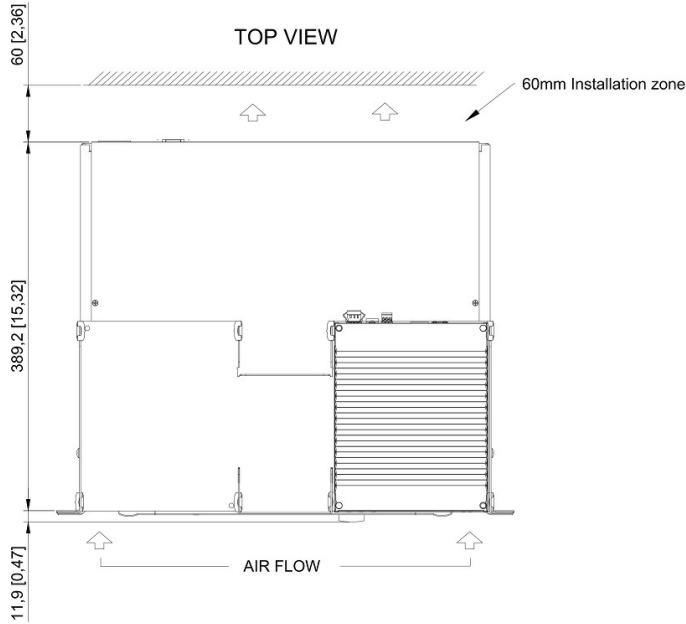
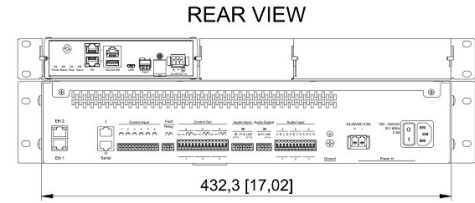
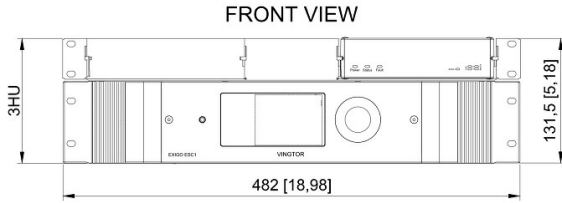
The system controller features a display where status and faults can be viewed. This display also allows configuration of simple parameters. The system controller monitors and receives status information from every component in the system. Faults are time stamped, and presented in chronological order on the display. Buttons allow an operator to acknowledge and reset faults. The network connection to every component in the system is monitored, so a defect switch or broken cable will be detected just as reliably and fast as any other fault in the system.

The system controller also acts as the system's alarm generator and audio message storage. The embedded alarm generator features a set of the most common alarm tones, but can also be programmed to support custom alarm tones and patterns. Stored voice and audio messages is easily uploaded to the system controller as standard wav files.

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

IMPORTANT NOTE: This article includes ICX500 acting as Primary System Controller for correct operation of Exigo system. No AMC-IP controller card in this package.

Technical Dimensions



Specifications

MECHANICAL

| | |
|--------------------|--|
| Dimensions (HxWxD) | 133 x 482 x 390 mm |
| Weight | 11 kg |
| Shipping Weight | 12 kg |
| Mounting | 19" Rack, 3HU (ESC1 2HU + ICX-500 1HU) |
| Color | Black |

USER INTERFACE

| | |
|------------|--|
| Display | 3.5" QVGA Color TFT LCD |
| Button | Rotary selector button with push-to-select |
| Indicators | Primary power, Secondary power, Fault, Alarm, Disabled, In command |

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

Primary

| | |
|----------------|-----------------------------------|
| Connector | V-lock, IEC 60320-1 C14 compliant |
| Nominal input* | 110 – 230 VAC + 48VDC, 47-63 Hz |

Secondary power

| | |
|-------------------|---------------------------------|
| Connector | Pluggable and lockable terminal |
| Nominal input | 24 - 48 Vdc |
| Power consumption | Pmax <100W |

*) Power cord not included

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 802.1q), 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 OUTPUT

| | |
|--------------------|--------------------------|
| Levels | 0 dBv (1Vrms) |
| Gain | -40 dB +2dB |
| Levels | 600 Ohm |
| Frequency response | Hardware: 200 Hz - 19kHz |
| Audio codec | G.722 |

LINE INPUT

| | |
|---------------------|--------------------------------|
| Frequency response | Hardware: 80 Hz – 20 kHz |
| Audio codec | G.722 |
| Nominal input level | 100 mVRMS – 1 VRMS |
| SNR | 80 dB |
| CMRR | 45 dB |
| Input impedance | 600 Ω / 10 k Ω m |

MICROPHONE INPUT

| | |
|---------------------------|---|
| Frequency response | 80 Hz – 20 kHz |
| Audio codec | G.722 |
| 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 50130-4, EN 61000-6-2* |
| Emissions | EN 60945, EN 61000-6-4* |
| Safety | EN 62368-1, IEC 60529 |

*When used in conjunction with PN: 1023598000 & 1023598100

PACKAGE CONTENT

| Item number | Item Name | Item Description |
|-------------|-----------|--|
| 1023000000 | ESC1 | Exigo System Controller |
| 1002000100 | ICX-500 | Intelligent Communication Gateway (Acting Primary System Controller / PSC) |
| 1002500010 | IA-RS1 | Rack Shelf for ICX-500 - 19" |
| 2990000065 | | Power Supply 100-240VAC/48VDC 2A for ICX-500 |

Accessories



EPMS100

Exigo System Controller Spare Power Supply



Power Supply 100-240VAC/48VDC 2A

Used With



ENA2400-AC2

Exigo Network Amplifier 2 x 400W
AC



ENA2200-AC2

Exigo Network Amplifier 2 x 200W
AC



ENA2100-AC

Exigo Network Amplifier 2 x 100W



P-1670-Basic

Power Amplifier 1 x 400W, 48VDC