



#### 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.

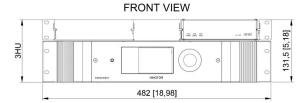
The system controller's control inputs/outputs and audio inputs can be used locally by the system controller (e.g. for PTT and audio from a handheld microphone) or can be controlled by the system (e.g. audio input for background music).

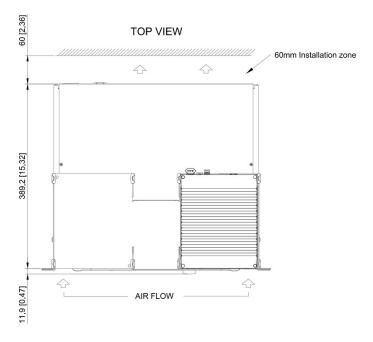
IMPORTANT NOTE: This article includes ICX500 acting as Primary System Controller for correct operation of Exigo system. No AMC-IP controller card in this package.

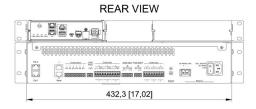
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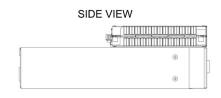
certified to meet the requirements in NS-EN ISO 9001. Zenitel reserves the right to modify designs and alter specifications without notice.

# **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 humidity15% to 95% (non-condensing)Storage temperature-40°C to +70°CStorage humidity10% to 95% (non-condensing)Air pressure700 hPa to 1300 hPaIP ratingIP-32Magnetic Compass Safe Distance30 cmEC 60945 Environmental CategoryProtectedOperator & Reading Distance0,71m	Operating temperature	-15 °C to +55 °C
Storage humidity  10% to 95% (non-condensing)  Air pressure  700 hPa to 1300 hPa  IP rating  IP-32  Magnetic Compass Safe Distance  EC 60945 Environmental Category  10% to 95% (non-condensing)  IP-32  Protected	Operating humidity	
Air pressure 700 hPa to 1300 hPa  IP rating IP-32  Magnetic Compass Safe Distance 30 cm  EC 60945 Environmental Category Protected	Storage temperature	-40°C to +70°C
IP rating IP-32  Magnetic Compass Safe Distance 30 cm  EC 60945 Environmental Category Protected	Storage humidity	·
Magnetic Compass Safe Distance  EC 60945 Environmental Category  Protected	Air pressure	700 hPa to 1300 hPa
Distance  EC 60945 Environmental Category  Protected	IP rating	IP-32
Category	- · ·	30 cm
Operator & Reading Distance 0,71m		Protected
	Operator & Reading Distance	0,71m

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#### **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 802.1pq), 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 OUTPUT**

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

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#### **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 kOhm

## 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 $\Omega$ / 10 k $\Omega$ (selectable)
Phantom supply (optional)	12 VDC ±10% @ 15 mA (IEC 61938, P12)

#### **CONTROL INPUTS AND CONTROL OUTPUTS**

Control Inputs	6
Туре	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 ±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"
299000065		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

#### ENA2100-AC

Exigo Network Amplifier 2 x 100W

#### P-1670-Basic

Power Amplifier 1 x 400W, 48VDC

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