zenitel

DATASHEET



1002000100

ICX-500

Intelligent Communication Gateway with HD Voice

For Maritime & Energy Solutions sales only

For Safety & Security sales, the ICX-510-IA replaces the ICX-500.

For Exigo Systems, the ICX-510 Unified Critical Communication Platform replaces the ICX-500

- Made to provide critical communication in any environment
- Supports 552 IP stations
- Environmentally friendly and energy saving - max. 15 W
- Global networking and integration
- Dual software images for system robustness and low downtime during software upgrades
- Secure boot, hardware Root of Trust - RoT
- High quality professional PA broadcasting and messaging services
- Security voice guidance for public safety and building security
- 1U high, fanless design, vibration proof

UL Certified Intercom | ICX-AlphaCom | HD Voice

Description

The ICX-500 Intelligent Communication Gateway connects people, devices, and systems at unprecedented levels of manageability, scalability, robustness, and interoperability.

ICX-500 will provide your site with all your communication needs as it is easy to extend in functionality and system size, and is designed to be future-proof. The system can be tailored to support applications of almost unlimited specificity and complexity.

Zenitel's ICX (Intelligent Communications X) implies the deployment of VoIP applications required in critical situations. ICX-500 provides carrier-class system availability and protects resources in an IP environment by using embedded security mechanisms.

The main security mechanisms used are hardware Root of Trust, software integrity check (SHA256), restricted management access, separate management interface, and internal firewall.

See Zenitel Wiki for more information on ICX-500.

For Safety & Security sales, ICX-510-IA replaces ICX-500.

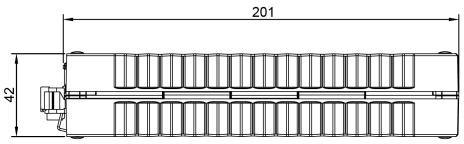
Technical Dimensions

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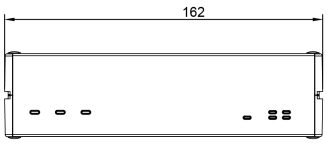
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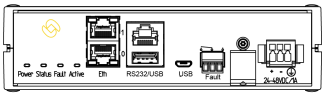
SIDE VIEW



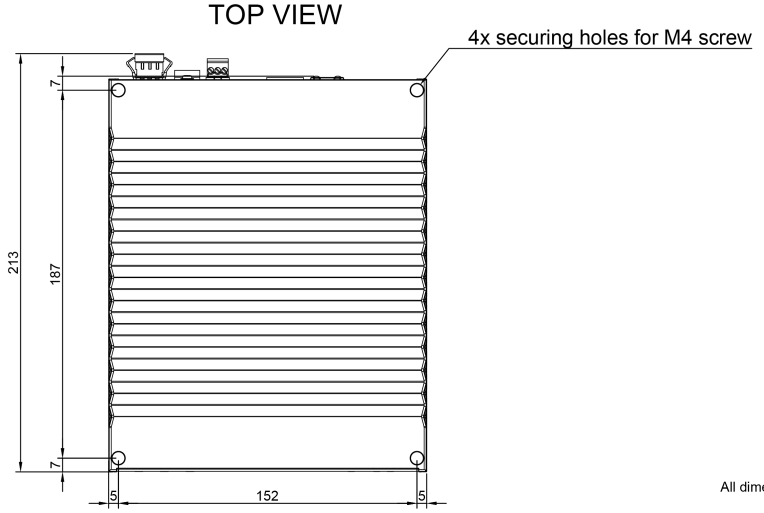
FRONT VIEW



REAR VIEW



TOP VIEW



All dimensions in mm

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Specifications

MECHANICAL & ENVIRONMENTAL

Dimensions (WxHxD)	162 x 44.5 x 200 mm / 6.38 x 1.75 x 7.87 inches
Weight	1 kg / 2.2 lbs
Power	Nominal 24VDC - 48VDC, 15 W (min/max: 20VDC-63VDC)
Mounting	Wallmount or 19” rack
Processor subsystem	NXP LS1043
Storage subsystem	Solid state (1048 MB Flash). MicroSD, USB
Temperature Range	-15°C to +55°C
Relative Humidity	95%

FEATURES

Memory	1048 MB SDRAM, 1048 MB NAND Flash, 128 MB NOR Flash
Subscriber Capacity	552 intercom stations per server
Busy Hour Call	60 000 BHCA
IP Telephones	552 IP telephones per server
Software Integrity Check	SHA256
IP Priority	DiffServ, IP TOS
IP Security	Hardware root of trust, SSH, HTTPS, firewall
SIP	RFC 3261, SIP INFO, RE-Invite. RFC 2833, RFC 4733,
VoIP Internal Networking	64 channels
VoIP External Networking	64 channels
ISDN Trunk	ISDN PRI (30 channels); VoIP external networking + gateway
Analog Trunk	FXO (4 & 8 channels); VoIP external networking + gateway
GSM Trunk	Quad band GSM; VoIP external networking + gateway
Other	Vingtor-Stentofon Data scripting engine (EDIO)
Configuration	AlphaPro over IP, Web
Monitoring and Logging	SNMP trap, SNMP MIB, syslog, Web, e-mail, SqLite
SW Upgrade	System recovery upgrade via SD-card, Web, Automatic upgrade of

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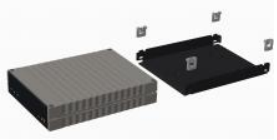
	IP station
VoIP Audio	HD Audio - 16 kHz (background music, see additional information on the Zenitel wiki), HD Voice - G.722 (7 KHz), Telephone Audio - G.711 (3.4 KHz)
Open Duplex Conference	20 open duplex conferences can be configured. A maximum of 32 subscribers can participate in 1 conference or spread over multiple conference channels simultaneously.
Push-to-Talk Conference	50 conference channels. Unlimited number of participants. Priority features
Group Call	250 groups. Unlimited number of participants. Priority features
Call Modes	Open mode. Ringing mode. Call request mode. Priority features
Audio Messaging	PA broadcasting. Auto-attendant, Voice guidance (doors, elevators), Security voice response
Compliance	CE, FCC Part 15
Certifications	IEC/UL62368-1, EN61000-6-X, EN60945, EN 50121-4; In order to comply with UL safety requirements, the unit has to be supplied by a power supply specified as a Limited Power Source (LPS) or PS2 (cased on IEC/UL 62368-1 definition) or NEC Class 2 source of supply

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CERITIFICATIONS	
EMC	IEC/EN 61000-6-2 Industrial Immunity
	IEC/EN 61000-6-4 Industrial Emissions
	IEC/EN 61000-6-1 Light Industrial Immunity
	IEC/EN 61000-6-3 Light Industrial Emission
	EN 55032 class B Multimedia equipment
	IEC/EN 60533 Maritime
Maritime	IEC/EN 60945
Vibration	2Hz-100Hz (IEC/EN 60068-2-6)
Dry heat	55°C (IEC/EN 60068-2-2)
Low Temperature	-15°C (IEC/EN 60068-2-2)
Damp Heat, Cyclic	40°C / 93%RH (IEC/EN 60068-2-2)
Safety	UL62368-1 certification
	CB certification to IEC62368-1

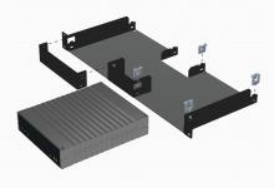
Accessories



IA-MB1

Mounting Bracket for ICX-500/510

Item Number: 1002500020



IA-RS1

Rack Shelf for ICX-500/510 - 19"

Item Number: 1002500010



IPS-AC1

PSU for ICX-500/510

Item Number: 1002510000



PROMAX-120-24

Power supply 100-240VAC/24VDC 5A

Item Number: 2990000041

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Power Supply 100-240VAC/48VDC 2A

Switched-mode power supply, 1-phase, 48 VDC output voltage, 2A current

Item Number: 2990000065

Used With



ICX-AlphaCom Core

Item Number: 1002600000



ICX-AlphaCom Licenses

Item Number: 100260xxxx



ILS-SC, IP-Station License, Softclient

IP Station License for SoftClient

Item Number: 1002600300



ILI-SIP2 / ILI-SIP4 / ILI-SIP8, SIP Trunking License 2, 4, 8 Lines

SIP Trunking License

Item Number: 100260210x

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ILI-REC(2-32), Active Recording Interface License

Active Recording Interface License

Item Number: 100260220x



ILI-API64 / ILI-API512, API License (64 and 512 Stations)

API License

Item Number: 100260230x



ILI-AN2 / ILI-AN8, AlphaNet License (2 Lines and 8 Lines)

AlphaNet License

Item Number: 100260200x



ILF-M-BAS / ILF-M-ENH / ILF-M-EXT (Audio Messaging Licenses, Basic and Enhanced)

Audio Messaging Licenses

Item Number: 1002604000/1002604100



ILS-IC, IP Station License

IP Station License

Item Number: 1002600100

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ILS-SIP, SIP Station License

SIP Station License

Item Number: 1002600700



ILS-CRM

IP Station License for CRM

Item Number: 1002600200

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