

1002000110

## ICX-510-IA Intelligent Communication Gateway

ICX-510 incl ICX-AlphaCom Core



- ✓ 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-510-IA Intelligent Communication Gateway connects people, devices, and systems at unprecedented levels of manageability, scalability, robustness, and interoperability.

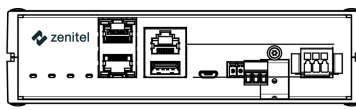
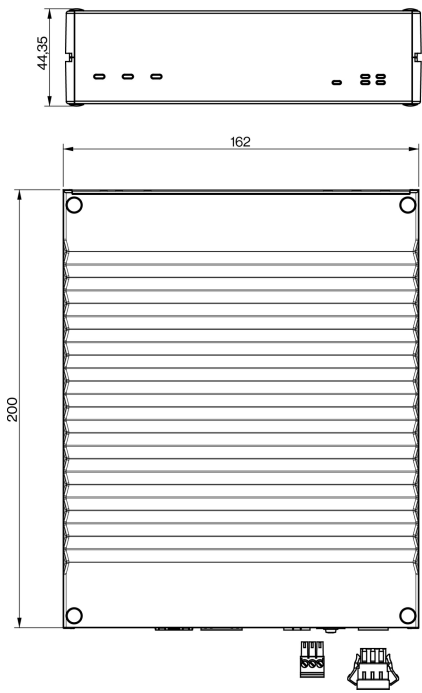
ICX-510-IA will provide your site with all your communication needs as it is easy to extend in functionality and system size, and is designed to be future-proof. The system can be tailored to support applications of almost unlimited specificity and complexity.

Zenitel's ICX (Intelligent Communications X) implies the deployment of VoIP applications required in critical situations. ICX-510-IA 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.

For more information on ICX-510-IA please see [Zenitel Wiki](#)

### Technical Dimensions



all dimensions in mm

# 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 (4048 MB Flash).<br>MicroSD, USB       |
| Temperature Range   | -15°C to +55°C / 5°F to 131°F                      |
| Relative Humidity   | 95%  |

## FEATURES

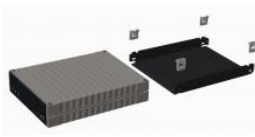
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|--------------------------|---|
| Memory                   | 4048 MB SDRAM, 4048 MB NAND Flash, 128 MB NOR Flash   |
| Subscriber Capacity      | 552 intercom stations per server  |
| Busy Hour Call           | 60 000 BHCA   |
| Network ports            | High speed, up to 1 gigabit per second  |
| 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.<br>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)  |
| 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) |
| 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 IP station   |

|                         |  |
|-------------------------|--|
| 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 (based on IEC/UL 62368-1 definition) or NEC Class 2 source of supply |

## CERTIFICATIONS

|                   |  |
|-------------------|--|
| 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      |
| Maritime          | IEC/EN 60533 Maritime                      |
|                   | IEC/EN 60945                               |
| Vibration         | 2Hz-100Hz (IEC/EN 60068-2-6)               |
| Dry heat          | 55°C (131°F) (IEC/EN 60068-2-2)            |
| Low Temperature   | -15°C (5°F) (IEC/EN 60068-2-2)             |
| Damp Heat, Cyclic | 40°C (104°F) / 93%RH (IEC/EN 60068-2-2)    |
| Safety            | UL62368-1 certification                    |
|                   | CB certification to IEC62368-1             |

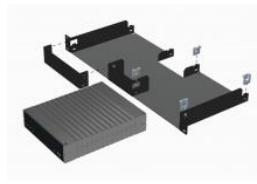
## Accessories



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



Power Supply 100-240VAC/48VDC  
2A

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

Item Number: 2990000065

## Used With



ILS-IC, IP Station License

IP Station License

Item Number: 1002600100



ILS-SIP, SIP Station License

SIP Station License

Item Number: 1002600700



ILS-SC, IP-Station License,  
Softclient

IP Station License for SoftClient

Item Number: 1002600300



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

AlphaNet License

Item Number: 100260200x



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

SIP Trunking License

Item Number: 100260210x



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

API License

Item Number: 100260230x



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

Active Recording Interface License

Item Number: 100260220x



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

Audio Messaging Licenses

Item Number: 1002604000/1002604100



ILS-CRM

IP Station License for CRM

Item Number: 1002600200