



◀ **ICX-AlphaCom** ◀ **SIP** ◀ **IC-EDGE**

SINGLE PRODUCT RANGE – 3 DIFFERENT PLATFORMS

**BECAUSE**

 when communication is critical

# VINGTOR STENTOFON

by ZENITEL GROUP

Vingtor-Stentofon products are developed by the Zenitel Group and comprise a range of high-quality communications equipment and systems. In business since 1901, Zenitel's products are recognized worldwide for offering high-quality communications for both offshore and onshore installations. Primary system offerings in the Vingtor-Stentofon product portfolio are Public Address and Intercom. Zenitel and the company's global partner network also integrate these systems with other security devices such as Radio, CCTV, Access Control and Alarm, for a comprehensive security solution.



1952



1964



1975



1996



2001



2009



2011



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2012



2013



2015



2016



2017



2019



# Single Product Range

## 3 Different Platforms

Invest in a product that keeps pace with changing technology, and that both anticipates and secures your future communication needs. Our equipment and devices can be used on 3 different platforms that each caters to a specific set of communication requirements.

### ICX-AlphaCom

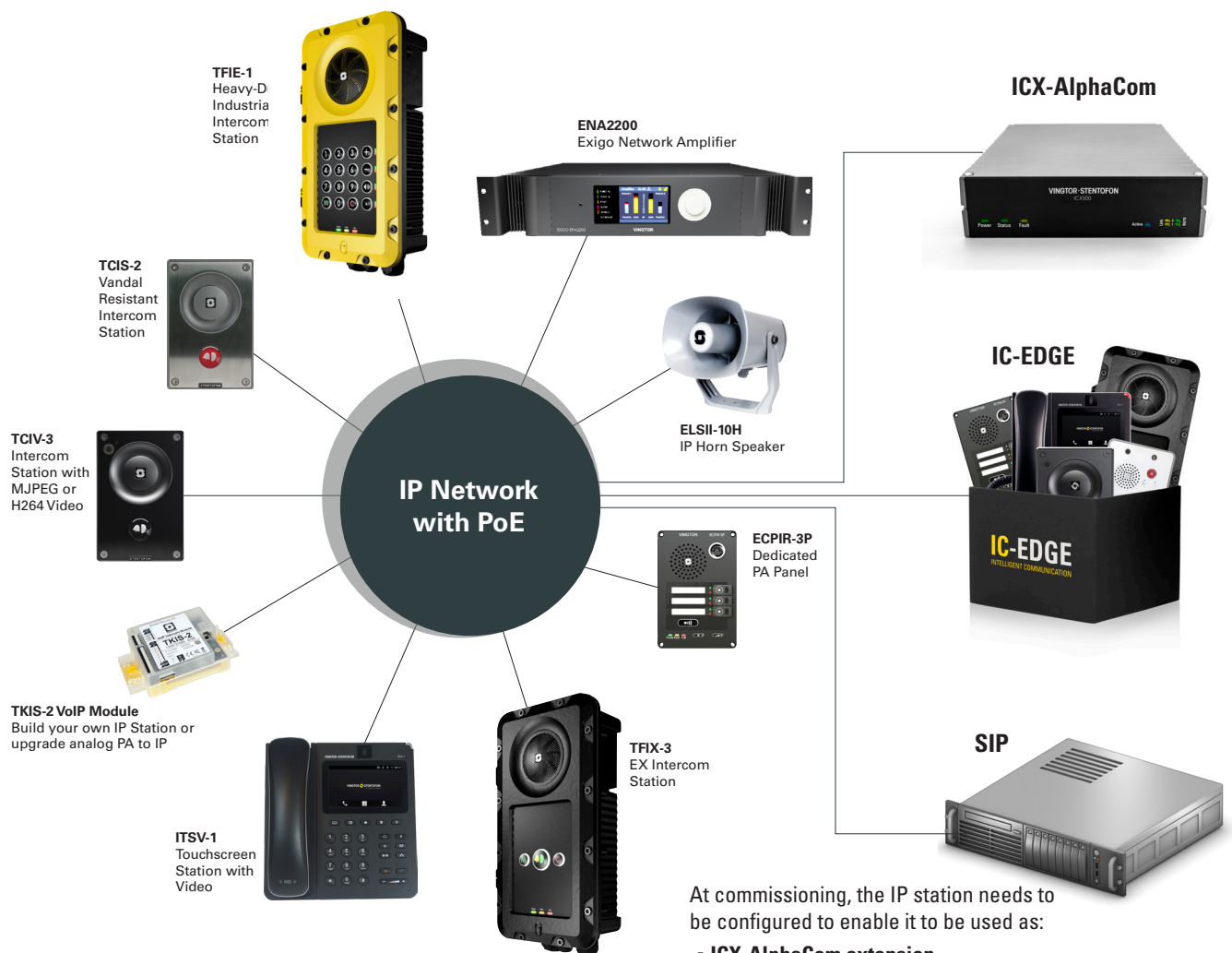
**ICX-AlphaCom** is all about integration. All communication devices (radio, telephone, PA, intercom, etc.) come together on the ICX-AlphaCom platform to be integrated with the overall Building Management System. This allows the use of powerful tools such as voice and audio in maintaining building security.

### IC-EDGE

**IC-EDGE** is a self-contained communication platform that's embedded in the actual IP Intercom and IP PA devices. No external server hardware is required and configuration is easily done using a web browser. Easy to deploy, use and maintain. Ideal for SMB companies.

### SIP

Our devices also support the **SIP** protocol. This means that they can be used on any VoIP communication platform that supports SIP. We understand that some customers prefer to keep the number of servers and other hardware to a minimum. Using SIP, you're able to hear, be heard and understood, when and where you need to, every time – all while using your existing VoIP system.



At commissioning, the IP station needs to be configured to enable it to be used as:

- ICX-AlphaCom extension
- IC-EDGE extension
- SIP extension

# ICX-AlphaCom Platform

Our Intelligent Communication Platform provides management and security services and allows for seamless integration into the cloud and other applications.



The core of the system is the ICX-500 Intelligent Communication Gateway connecting people, devices & systems at unrivaled levels of manageability, scalability, robustness and interoperability.

ICX-AlphaCom Offers:

## Integrated Intelligent Communication Management & Security

- Streamlined and unified management
- Built-in cybersecurity – Trusted Platform

## Scalability & Robustness

- State-of-the-art quad-core processing capacity
- Supports up to 552 IC devices per node
- Solid design with no moving parts

## Interoperability

- Supports industry standards
- Multiple certified platform and device integrations
- Native API & cloud connectivity
- Fully compatible with legacy AlphaCom system

## IC-EDGE

IC-EDGE is the next-generation intelligent communication system that delivers seamless integration, unrivaled sound quality, security and ease of use right out of the box. Minimize your hardware infrastructure, maximize audio quality and performance, and consolidate your communication needs into a centralized system requiring no external server.

### System Description

- Allows up to:
  - 64 stations per system
  - 10 VS-clients (PC)
  - 10 SIP-clients (e.g., VoIP App)
- Embedded server, no additional server equipment required
- Mobile App
- Automatic discovery of all Vingtor-Stentofon devices
- System setup is possible using web browser in less than 10 minutes
- Stations support Active Noise Reduction
- Audio Messaging
- Group Call with Re-Call and Answer Function
- IC-EDGE mode is available on all our IP Stations
- Wide range of special purpose intercom stations
- Open for SIP-enabled 3<sup>rd</sup>-party devices
- SIP Trunking to ISDN/GSM telephony gateways
- IP Telephony Service
- Dedicated PC client (VS-Client)
- G711, G722 codec support
- Door Opening
- Network up to 50 IC-EDGE systems



# SIP

## Setting the Standard for Open and Transparent technology.

SIP is the quintessential example of an open and transparent technology that unifies voice communication. This protocol is integrated and available out-of-the-box, on every single IP Device in our portfolio.

Our SIP products work anywhere in any iPBX system, are certified for integration in Avaya, Cisco, NEC and Alcatel-Lucent systems, and have been used on these platforms for many years. In addition, our products are currently being used successfully on other platforms such as Samsung, Mitel, Asterisk, and Panasonic.

Our devices support G.711 ( $\mu$ -law and A-law), G.722 and G.729.



The Vingtor-Stentofon SIP Intercom solution has successfully passed compliance testing with Avaya Aura Session Manager and is officially recognized as compliant.



The Vingtor-Stentofon IP Intercom Stations with SIP software version 2.2 have been tested as compatible with Cisco Unified Communications Manager.

**NEC**

The Vingtor-Stentofon SIP Intercom solution is compatible with the following NEC platforms:  
All NEC IP PBX Family  
3C : Softswitch  
SV8300 : IP PBX  
iS3000 : Hybrid PBX.



A selection of stations are compatible with Alcatel-Lucent OmniPCX Enterprise R10.

## ...and more

### NETWORK SECURITY

Our years of experience from working with large iPBX brands such as Cisco, Avaya and Alcatel have taught us the importance of hardening our devices against network attacks. We work ceaselessly to implement and upgrade security protocols to keep our devices updated with the latest security standards.

### KEEPING YOUR SYSTEM RUNNING

Our IP stations support a range of features to make it easier to upgrade and maintain firmware. We support open protocols such as SNMP, TFTP and RSTP. In addition, we offer various SIP registration methods to enable redundancy (Parallel, Serial, Top-Down and Cisco's SRST protocol). Our products are highly reliable, with an expected MTBF of 400K hours.

## IP Intercom Stations

All IP Stations work with ICX-AlphaCom, SIP, IC-EDGE.

1008000000 / 1008401000

### IP Desk/Wall Master Station with Display

- 85 dB audio pressure 1 meter from speaker
- Large high contrast display with backlight
- 10 freely programmable single-touch keys (DAK)
- Queuing of calls according to priority and time of arrival, 256 priority levels
- Superb audio technology
- Remote SW upgrade, configuration & monitoring
- Background Noise Cancellation
- 1008000000: without Handset
- 1008401000: with Handset



Size (WxHxD): 225 x 75 x 176mm Wt: 0.7kg

Accessories: 1008091100 Wall bracket for Desktop

1008007000

### IP Dual Display Station

- IP station with full access to all features in the ICX-AlphaCom exchange
- Remote software upgrade, configuration and monitoring
- Powered from the IP network cable using Power over Ethernet (PoE)
- Superb audio quality – high bandwidth codec, acoustic echo cancellation and high output power amplifier
- Displays with backlight
- The station may use up to 90 Direct Access Keys (DAK) on 9 dynamic DAK pages. The dialing keys have letters to be used for search facility in the intercom directory and display text editing
- Background Noise Cancellation



Size (WxHxD): 72 x 140 x 270mm Wt: 0.4kg

Accessories: 1007007010 Microphone for Dual Display Station

1008015000

### IP Clean Room Master with Display

- Connects directly to the IP network, no geographical limitations
- Large high contrast display with backlight for excellent readability
- Flat chemical resistant and anti-bacterial front surface for easy cleaning
- 4 freely programmable single-touch keys (DAK)
- Superb audio technology – possible to talk and listen at a distance (5m)
- Integrated web server for easy configuration and monitoring
- Background Noise Cancellation



Size (WxHxD): 125 x 280 x 30mm Wt: 0.63kg

Accessories: 1008098700 Flush Mount Back Box

1008031000

### CRM-V IP Flush Master with Display

- Connects directly to the IP network, no geographical limitations
- Large high contrast display with backlight for excellent readability
- White light behind all keys
- Four freely programmable single-touch keys (DAK)
- Superb audio technology
- Optional handset unit
- Remote upgrade, configuration and monitoring
- Background Noise Cancellation



Size (WxHxD): 125 x 280 x 30mm Wt: 0.63kg

Accessories: 1008097500 Gooseneck Microphone, 1008097100 Handset, 1008098700 Flush Mount Back Box, 2810020004/5/6 Desk Stand

1008010100

### CRM-V-DAK48 IP Dak Expansion Module

- Extends CRM-V IP Flush Master Station with 48 programmable DAK keys (direct access keys)
- Ideal for control room applications
- Visual indications with two LEDs (green/red) per DAK key
- All keys have backlight (adjustable)
- Easy labeling of keys
- Advanced call request handling with visual indications
- CCTV and intercom integration



Size (WxHxD): 125 x 280 x 30mm Wt: 0.65kg

Accessories: 1008031000 IP Flush Master, display, 1009648001 License for CRM-V DAK expansion, 1008010101 Label paper for IP DAK-48 Unit

1008097100

### Handset for CRM-V

- Handset module for CRM-V Flush Master



Size (WxHxD): 67 x 280 x 41mm Wt: 0.4kg

Related items: 1008031000 IP Flush Master, display

1008097500

### Gooseneck Mic for CRM-V

- Noise cancelling gooseneck microphone for CRM-V IP Flush Master
- Ideal for Public Address applications and control center



Size (WxHxD): 90 x 32 x 45 mm Wt: 0.1kg

Related items: 1008031000 IP Flush Master



1490003010

### ITSV-3 IP Touch Station with Video

- Video desktop intercom station supporting ICX-AlphaCom, SIP and IC-EDGE solutions
- 4-core 1.3GHz ARM Cortex A53 processor with 2GB RAM and 8GB eMMC Flash
- Runs on Android 7.0 operating system
- 7" (1024x600) capacitive touch screen TFT LCD
- Built-in Bluetooth for syncing with mobile devices and connecting Bluetooth headset
- Integrated dualband WiFi (2.4GHz & 5GHz)
- Built-in PoE/PoE+ for power network connection
- Built-in megapixel camera with privacy shutter
- 7-way audio conferencing & 3-way 720p 30fps HD video conferencing capability
- Speakerphone with HD acoustic chamber, advanced echo cancellation & double-talk performance
- Dual-switched auto-sensing 10/100/1000Mbps network ports



Size (WxHxD): 252 x 209 x 84 mm Wt: 1.08 kg

1490001010

### ITSV-1 IP Touch Station with Video

- Video desktop intercom supporting ICX-AlphaCom XE, SIP and IC-EDGE solutions
- Phonebook with up to 1000 contacts and call history with up to 1000 records
- Dual switched auto-sensing 10/100/1000Mbps network ports
- Wi-Fi (802.11b/g/n), PoE+, Bluetooth, USB, SD, HDMI, EHS with Plantronics headsets support
- 4.3" (480x272) capacitive (5 points) touch screen TFT LCD
- Megapixel CMOS sensor camera with privacy shutter
- HD wideband audio
- Full-duplex hands-free speakerphone with advanced acoustic echo cancellation and excellent double-talk performance



Size (WxHxD): 196.5 x 206.2 x 85.2 mm Wt: 0.92 kg

1490000010

### SDS-1 IP SIP Desk Station

- 2 lines, 2 SIP accounts, 3-way conferencing
- Integrated PoE
- Dual-switched 10/100 Mbps ports
- TLS and SRTP
- HD Audio
- EHS Support
- ICX-AlphaCom XE Support



Size (WxHxD): 184.5 x 209 x 76.2 mm Wt: 0.73 kg

1008041200

### Vandal Resistant Substation TKIE

- Compatible with ICX-AlphaCom, IC-EDGE and SIP
- Vandal and water resistant
- Designed in stainless steel (AISI 316L) to withstand corrosion
- Remote software upgrade, configuration and monitoring
- Integrated data switch with advanced networking and security functions
- 2 Relay outputs for remote control, e.g. doors, signal lamps and gates
- Powered from the IP network cable using Power over Ethernet (PoE)
- Superb audio quality – high bandwidth codec, active noise cancellation, acoustic echo cancellation and high output power amplifier

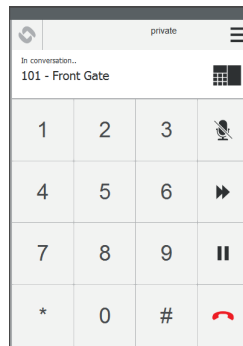


Size (WxHxD): 180 x 92 x 46 mm Wt: 0.8 kg

1009661101

### VS-Client Intercom Client for PC

- Designed to be used as a control room operator's intercom or office intercom.
- Intended users include: site security or control room operator, payment booth operator (parking and toll-roads), operator handling incoming calls, and in-office standard calls.
- Provides Turbine Class Audio with echo cancellation and noise reduction
- Full Numeric Keypad provides full call control with call transfer, hold/resume, mute.
- Call History shows a list of all incoming and outgoing calls.
- Address Book (Contacts)

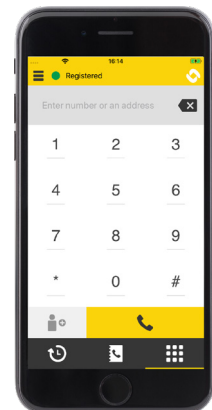


Works with IC-EDGE only

1009666000

### IE-MOBL IP Zenitel Mobile App - Local Mode

- Android and iPhone (iOS) support
- Audio and video calls including video preview
- Action buttons for remote control of doors and gates
- Integration with Apple and Google push notification for waking up app
- Remote provisioning using QR code
- Extends IC-Edge system to your mobile device
- Upto 10 Zenitel Mobiles can connect to one system
- Free to download from Google Play and App Store



Works with IC-EDGE only

## Turbine IP Stations

1008111010

### TCIS-1

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant - IP66 rating
- Built to last with robust die-cast aluminum frame - IK 08 rating
- Designed according to the norm for hearing impaired
- Support wide set of IP and networking standards
- Yellow thermoplastic front plate with one button + M and C
- Ideal for Industrial Applications



**Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008111020

### TCIS-2

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant - IP66 rating
- Built to last with robust die-cast aluminum frame - IK10 rating
- Designed according to the norm for hearing impaired
- Support wide set of IP and networking standards
- Stainless steel front plate with one button
- Ideal for Building Security and Public Environments



**Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008111030

### TCIS-3

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant - IP66 rating
- Built to last with robust die-cast aluminum frame - IK08 rating
- Designed according to the norm for hearing impaired
- Support wide set of IP and networking standards
- Black thermoplastic front plate with one button
- Ideal for Building Security and Public Environments



**Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008111040

### TCIS-4

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant - IP66 rating
- Built to last with robust die-cast aluminum frame - IK08 rating
- Designed according to the norm for hearing impaired
- Support wide set of IP and networking standards
- Black thermoplastic front plate with one labelled button
- Unique labeling solution with PMOLED display
- Ideal for Building Security and Public Environments



**Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008111050

### TCIS-5

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant - IP66 rating
- Built to last with robust die-cast aluminum frame - IK08 rating
- Designed according to the norm for hearing impaired
- Support wide set of IP and networking standards
- Black thermoplastic front plate with two labelled buttons
- Unique labeling solution with PMOLED display
- Ideal for Building Security and Public Environments



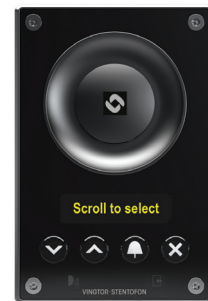
**Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008111060

### TCIS-6

- Amazing sound pressure level when needed
- Background noise cancellation
- Dirt, dust and water resistant - IP66 rating
- Built to last with robust die-cast aluminum frame - IK08 rating
- Designed according to the norm for hearing impaired
- Support wide set of IP and networking standards
- Black thermoplastic front plate with scrolling unit for calling to an unlimited number of places
- PMOLED display
- Ideal for Building Security and Public Environments



**Size (WxHxD): 120 x 180 x 70mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008111901

### TCIS-C1

- Designed according to Disability Act requirements
- Audio Presence - crystal clear audio
- Amazing sound pressure levels when needed with automatic volume adjustment
- Background noise cancellation
- Dirt, dust and water resistant - rating IP-65
- Built to last with robust die-cast aluminum frame - rating IK 08
- Supports wide set of IP and networking standards
- Custom front plate with two labelled buttons
- Ideal as Help Point in Public Environments



Size (WxHxD): 120 x 180 x 70 mm Wt: 0.8 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008116010

### TMIS-1 Turbine Mini

- Background Noise Cancellation
- Built to last with robust die-cast aluminum frame
- Supports wide set of IP and networking standards
- White thermoplastic front plate with one button
- Ideal for Building Security & Public Environments



Size (WxHxD): 116 x 116 x 40 mm Wt: 0.3 kg

1008116020

### TMIS-2 Turbine Mini

- Background Noise Cancellation
- Vandal Resistant Design
- 11 Gauge Stainless Steel Faceplate
- One Vandal Proof Call Button
- Superb Audio Quality using G.722 Audio Codec
- Class D 10 W Amplifier



Size (WxHxD): 114 x 114 x 55 mm Wt: 0.5 kg

1008113020 / 1008113120

### TCIA-2 Analog over IP Intercom

- Vandal resistant Analog over IP intercom
- Up to 60 meters extended analog interface keeps the IP network port in protected area
- Stainless steel front plate with one button
- Used together with TKIA-2 and TKIS-2
- 1008113120 TCIA-2-P is a package comprising TCIA-2, TKIA-2, TKIS-2



Size (WxHxD): 120 x 180 x 73 mm Wt: 1 kg

1008133020

### TKIA-2 Analog over IP Gateway

- Extends analog interface on TKIS-2 up to 60 m
- Keeps your IP network port in protected area.
- Uses a standard CAT5 or CAT6 Ethernet cable to connect to TCIA-2 Analog over IP intercom.
- Includes cable for connection to TKIS-2
- Used together with TKIS-2 and TCIA-2



Size (WxHxD): 117 x 71 x 32 mm Wt: 0.1 kg

1023200033

### ECPIR-3P

- Indoor intercom for console mounting
- Communication and Power over Ethernet
- Three programmable buttons with individual labels and status indicators
- Separate PTT button
- Optional button protection covers
- Indicators for power, call and fault
- Can be used with handheld or gooseneck mic
- Background Noise Cancellation
- IP Rating: IP32



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

Accessories: 1023253008 EBMDR-8 Button Expansion Module, 1023533011 EMMAR-1H Handheld Mic, 3005020033 MB-30G Gooseneck Mic

2390020100

### Touchless Sensor

- Accessory for Turbine compact series TCIS/TCIV+
- Contactless communication for a variety of settings and applications
- Activates intercom calls using gesture recognition with simple swipe of the hand



Size (WxHxD): 80 x 80 x 28 mm Wt: 0.2 kg

1008140140

### TA-14 Mic Windscreen for TCIX

- Protects Turbine Compact microphone against wind noise

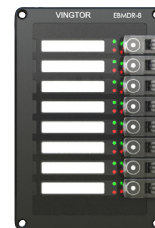


Size (WxHxD): 110 x 12.4 x 15.5 mm

1023253008

### EBMDR-8

- Button expansion module for ECPIR-3P intercom
- Powered from ECPIR-3P
- Eight programmable buttons with individual labels and status indicators
- Optional button protection covers
- Four units can be connected to one intercom



Size (WxHxD): 96 x 144 x 50 mm Weight: 0.5 kg

IP Rating: IP-32

1023533012

### PAM1H Mic for ECPIR-3P

- Handheld PA microphone with bracket
- Push-To-Talk button
- Electret and Noise Cancelling microphone
- IP-66



Size: Length 142 mm, Head Ø 29 mm, Body Ø 24 mm  
Weight: 0.19 kg Cord length: 1.5 m

## TCIV+ Turbine Video Stations



- HD Video
- Field of View 145°H 109°V
- HD Voice
- SIP
- IP66
- ONVIF Profile S

### Crystal-Clear Audio and HD Video

The TCIV+ is a video intercom solution that combines the unrivaled audio of our Turbine Compact Series with HD video. Empower your security team with the proven power of Turbine, so they can act in real time and with clear communication. Through a unique combination of exceptional video, voice and powerful audio amplification for announcements, you can mitigate security risks faster than ever before. The sleek, yet robust TCIV+ is designed to withstand harsh conditions including extreme fluctuations in temperature, vandalism, and noisy, dirty and dusty environments.

1008315020

#### TCIV-2+

- Powerful audio technology including high sound pressure, automatic volume gain control, and active noise echo canceling
- HD video up to 1080p resolution
- Wide angle lens
- High performance hardware platform with 4 x Cortex-A53 CPU cores and 512MB LPDDR4 RAM
- Vandal Resistant Design
- IP66 - Dirt, dust and water resistant
- Cybersecurity compliant
- Operates in SIP, IC-EDGE, ICX-AlphaCom modes
- Stainless steel front plate with one button
- ONVIF Profile S conformant



Size (WxHxD): 120 x 180 x 73 mm Wt: 1 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008315030

#### TCIV-3+

- Powerful audio technology including high sound pressure, automatic volume gain control, and active noise echo canceling
- HD video up to 1080p resolution
- Wide angle lens
- High performance hardware platform with 4 x Cortex-A53 CPU cores and 512MB LPDDR4 RAM
- Vandal Resistant Design
- IP66 - Dirt, dust and water resistant
- Cybersecurity compliant
- Operates in SIP, IC-EDGE, ICX-AlphaCom modes
- Black thermoplastic front plate with one button
- ONVIF Profile S conformant



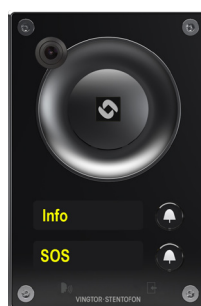
Size (WxHxD): 120 x 180 x 73 mm Wt: 1 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

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#### TCIV-5+

- Powerful audio technology including high sound pressure, automatic volume gain control, and active noise echo canceling
- HD video up to 1080p resolution
- Wide angle lens
- High performance hardware platform with 4 x Cortex-A53 CPU cores and 512MB LPDDR4 RAM
- Vandal Resistant Design
- IP66 - Dirt, dust and water resistant
- Cybersecurity compliant
- Operates in SIP, IC-EDGE, ICX-AlphaCom modes
- Black thermoplastic front plate with two buttons
- Labelling solution with PMOLED displays
- ONVIF Profile S conformant



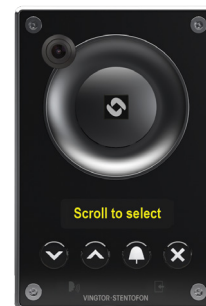
Size (WxHxD): 120 x 180 x 73 mm Wt: 1 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

1008315060

#### TCIV-6+

- Powerful audio technology including high sound pressure, automatic volume gain control, and active noise echo canceling
- HD video up to 1080p resolution
- Wide angle lens
- High performance hardware platform with 4 x Cortex-A53 CPU cores and 512MB LPDDR4 RAM
- Vandal Resistant Design
- IP66 - Dirt, dust and water resistant
- Cybersecurity compliant
- Operates in SIP, IC-EDGE, ICX-AlphaCom modes
- Black thermoplastic front plate with scrolling PMOLED display
- ONVIF Profile S conformant



Size (WxHxD): 120 x 180 x 73 mm Wt: 1 kg

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140140 TA-14 Microphone Windscreen, 2390020100 Touchless Sensor

## Turbine Industrial/Ex IP Stations



1008122010

### TFIE-1

- IP intercom for industrial environments
- Dual Ethernet connectivity for redundant networks
- PoE powered
- Auxiliary DC power for redundancy
- DIP functionality for use with ICX-AlphaCom
- SIP/VoIP functionality for use with 3rd-party systems
- Dual relay outputs
- Full Keypad + 6 configurable I/Os
- Dust- and water-protected to IP66 rating
- Accessories include Handheld PTT, Headset with ON/OFF and PTT and Handset with PTT
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

1008122020

### TFIE-2

- IP intercom for industrial environments
- Dual Ethernet connectivity for redundant networks
- PoE powered
- Auxiliary DC power for redundancy
- DIP functionality for use with ICX-AlphaCom
- SIP/VoIP functionality for use with 3rd-party systems
- Dual relay outputs
- 6 configurable I/Os
- Dust- and water-protected to IP66 rating
- Accessories include Handheld PTT, Headset with ON/OFF and PTT and Handset with PTT
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

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### TFIE-6

- IP intercom for industrial environments
- Dual Ethernet connectivity for redundant networks
- PoE powered
- Auxiliary DC power for redundancy
- DIP functionality for use with ICX-AlphaCom
- SIP/VoIP functionality for use with 3rd-party systems
- Dual relay outputs
- Full Keypad + 6 configurable I/Os
- Dust- and water-protected to IP66 rating
- Accessories include Handheld PTT, Headset with ON/OFF and PTT and Handset with PTT
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- PMOLED display with scrolling unit for calling to unlimited number of places



Size (WxHxD): 178 x 345 x 101 mm Weight: 1.9 kg

Accessories: 1023533312 EMMAI-2H Mic, 1008140230 TA-23 Handset, AK5850HS Headset, 1008140225 TA-22B Cable & Plugbox, 1008140100 TA-10 Relay Module

1008123010

### TFIX-1

- Ex IP intercom for potentially explosive atmospheres - Directive 2014/34/EU
- Ethernet compatible 2-wire interface
- DIP functionality for use with ICX-AlphaCom audio
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP66 rating
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008123020

### TFIX-2

- Ex IP intercom for potentially explosive atmospheres - Directive 2014/34/EU
- Ethernet compatible 2-wire interface
- DIP functionality for use with ICX-AlphaCom audio
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP66 rating
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008123030

### TFIX-3

- Ex IP intercom for potentially explosive atmospheres - Directive 2014/34/EU
- Ethernet compatible 2-wire interface
- DIP functionality for use with ICX-AlphaCom audio
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP66 rating
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008123040

### TFIX-4

- Ex IP intercom for potentially explosive atmospheres - Directive 2014/34/EU
- Ethernet compatible 2-wire interface
- DIP functionality for use with ICX-AlphaCom audio
- SIP/VoIP functionality for use with 3rd-party systems
- Dust- and water-protected to IP66 rating
- Monitoring and self-diagnostics of critical functionality
- Visible status indicators on front panel
- Background Noise Cancellation



Size (WxHxD): 178 x 345 x 101 mm Weight: 4 kg

Accessories: 1023533511 EMMAX-1H Mic, 1008150030 TAX-3 Handset, AK5850HS Headset, 1008150025 TAX-2B Cable & Plugbox

1008140230 / 1008150030

### TA-23 / TAX-3 Handset with PTT

- PTT-key for operation in noisy environments
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- IP Rating: IP66
- TA-23 for Turbine Industrial intercoms
- TAX-3 for Turbine Ex intercoms



Size (WxHxD): 200 x 70 x 50 mm Weight: 310 g

1023533312 / 1023533511

### EMMAI-2H / EMMAX-1H Mic

- Handheld microphone PTT key
- Noise cancelling microphone
- High quality digital background noise reduction
- EMMAI-2H for Turbine Industrial intercoms
- EMMAX-1H for Turbine Ex intercoms



Size (WxHxD): 44 x 68 x 21.5 mm Weight: 0.22 kg

AK5850HS

### AK5850HS Ex-Approved Headset

- Rugged headset for Ex application
- Noise-cancelling microphone
- High quality digital background noise reduction
- HD-voice compatible
- High quality audio
- Optional in-ear monitors may be connected for added damping in extreme environments
- IP Rating: IP66
- Standard 4-pole Nexus connector for easy connection/replacement
- For use with 1008150025 Ex-approved Cable for headset with PTT
- Designed for Turbine Ex explosion-proof intercoms



Size (WxHxD): 210 x 150 x 70 mm Weight: 400 g

Accessories: TA-22B / TAX-2B Ex-approved Cable and Plugbox

1008140225 / 1008150025

### TA-22B / TAX-2b Cable and Plugbox for AK5850HS Headset

- Compact, rugged plugbox with PTT (10m cable)
- For use with AK5850HS Headset
- TA-22B for Turbine Industrial intercoms
- TAX-2B for Turbine Ex intercoms



Length: 10 m

## Heavy Duty IP Stations



1008072220

### IP Heavy Duty Telephone, Door, Hotline

- Made for critical communication in rough environments like roads, tunnels, ships
- Extremely water and dust resistant (IP67)
- Very durable with 5mm aluminum casing and stainless steel components
- Magnetic reed hook-switch ensures minimal wear and tear
- Supports VoIP with SIP and CCoIP with ICX-AlphaCom
- Supports local power and Power over Ethernet (PoE)
- Integrated data switch with advanced networking and security functions
- Supports HD Voice



Size (WxHxD): 205 x 320 x 148mm Wt: 5.4kg

Accessories: 1020600992 IRR-3 Relay Box 24V DC or 220V AC - Signal Unit WT - IP-66

1008072120

### IP Heavy Duty Telephone, Hotline

- Made for critical communication in rough environments like roads, tunnels, ships
- Extremely water and dust resistant (IP67)
- Very durable with 5mm aluminum casing and stainless steel components
- Magnetic reed hook-switch ensures minimal wear and tear
- Supports VoIP with SIP and CCoIP with ICX-AlphaCom
- Supports local power and Power over Ethernet (PoE)
- Integrated data switch with advanced networking and security functions
- Supports HD Voice



Size (WxHxD): 205 x 320 x 120mm Wt: 5kg

Accessories: 1020600992 IRR-3 Relay Box 24V DC or 220V AC - Signal Unit WT - IP-66

1008072100

### IP Heavy Duty Telephone, Full Keypad

- Made for critical communication in rough environments like roads, tunnels, ships
- Extremely water and dust resistant (IP67)
- Very durable with 5mm aluminum casing and stainless steel components
- Magnetic reed hook-switch ensures minimal wear and tear
- Supports VoIP with SIP and CCoIP with ICX-AlphaCom
- Supports local power and Power over Ethernet (PoE)
- Integrated data switch with advanced networking and security functions
- Supports HD Voice



Size (WxHxD): 205 x 320 x 120 mm Wt: 5kg

Accessories: 1020600992 IRR-3 Relay Box 24V DC or 220V AC - Signal Unit WT - IP-66

1008072200

### IP Heavy Duty Telephone, Door, Full Keypad

- Made for critical communication in rough environments like roads, tunnels, ships
- Extremely water and dust resistant (IP67)
- Very durable with 5mm aluminum casing and stainless steel components
- Magnetic reed hook-switch ensures minimal wear and tear
- Supports VoIP with SIP and CCoIP with ICX-AlphaCom
- Supports local power and Power over Ethernet (PoE)
- Integrated data switch with advanced networking and security functions
- Supports HD Voice



Size (WxHxD): 205 x 320 x 148 mm Wt: 5.4kg

Accessories: 1020600992 IRR-3 Relay Box 24V DC or 220V AC - Signal Unit WT - IP-66

1008070010

### IP Hotline Station

- Made for critical communication in roadside and tunnel environments
- Water and dust resistant
- Designed in flame and chip resistant plastic
- Superb audio quality
- Supports VoIP with SIP and CCoIP with ICX-AlphaCom
- Supports local power and PoE
- Advanced supervision functions



Size (WxHxD): 124 x 252 x 162 mm Wt: 1.0kg

## Station Kits

1008093000

### IP Master Station Kit

- Made for Critical Communication over IP
- Supports full keyboard including direct access keys (DAK) and dynamic keys
- Supports handset and headset
- Superb audio quality
- OdB (600 Ohm) output to Public Address
- Relay output for e.g. door lock control and tamper alarm input
- Dual Ethernet ports for connection of other IP devices
- Remote software upgrade, configuration and monitoring



Size (WxHxD): 88 x 152 x 20mm Wt: 0.13kg

Accessories: 1008099000 Display for IP Master Station Board, 5 Pieces

1008131020

### TKIS-2 VoIP Intercom Module

- DIN-rail mountable, clips included
- Add VoIP/CCoIP to your parking solution, cash point, vending machine, et al
- Build your own IP Intercom station or help point
- Make your own 10W IP Speaker
- Control relay and I/Os over IP
- Supports ICX-AlphaCom, IC-EDGE and SIP (for use with any IPBX)
- Supports a wide set of IP networking standards
- Remote software upgrade, configuration and monitoring
- Powered from the IP network cable using Power over Ethernet (PoE)
- Advanced audio technology like automatic gain and volume adjustment, background noise cancellation, open duplex, etc.



Size (WxHxD): 117 x 71 x 32 mm Wt: 0.1kg

Accessories: 1008140170 TA-17 electret mic

1008132020

### TKIE-2 Turbine IP Station Kit

- IP station kit with extended functionality
- Dual RJ45 for Ethernet connectivity (with switch)
- Dual relays (DPDT)
- 6 configurable I/Os (input, output or LED-driving)
- Line-in/Line-out connectivity for connection to audio devices
- Header for connecting audio accessories
- Connects to high-power relay module (TA-10)
- High quality Turbine™ class output with 10W amplifier
- Full open duplex and digital noise reduction
- Metal enclosure suitable for DIN-rail mounting



Size (WxHxD): 106 x 74 x 30 mm Wt: 0.1kg

Accessories: 1008140170 TA-17 electret mic

1008331010

### TKIV+ Turbine Video & VoIP Intercom Module

- Build your own IP Intercom video station or Help-Point
- Add VoIP and video to your parking solution, cash point, vending machine, et al
- Advanced audio technology like automatic gain and volume adjustment, background noise cancellation, open duplex, etc.
- HD Video at up to 30 FPS in 1440x1080p
- Wide angle lens
- ONVIF Profile S conformant
- MJPEG and H.264
- Control relay and I/Os over IP
- Supports ICX-AlphaCom, IC-EDGE and SIP
- Supports a wide set of IP networking standards
- Remote SW upgrade, configuration & monitoring
- Powered from the IP network cable using Power over Ethernet (PoE and PoE+)



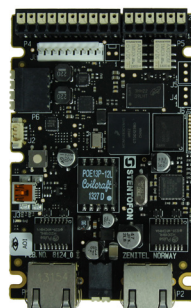
Size CPU Module (HxWxD): 68 x 85.9 x 45 mm

Size Camera Module (HxWxD): 53 x 66 x 19 mm

1008132010 / 1008132030

### TKIE-1/TKIE-3 Turbine Extended Kit

- IP station kit with extended functionality
- Dual RJ45 for Ethernet connectivity (with switch)
- Dual relays (DPDT)
- 6 configurable I/Os (input, output or LED-driving)
- Line-in/Line-out connectivity for connection to audio devices
- Header for connecting audio accessories
- Option to connect high-power relay module TA-10
- High quality Turbine class output with 10W amplifier
- Full open duplex and digital noise reduction
- TKIE-3 comes with 5x5 keyscan matrix



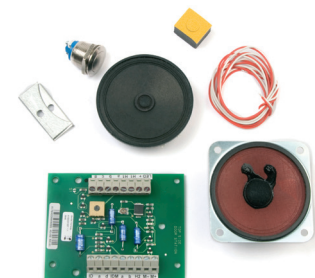
Size (WxHxD): 100 x 65 x 25 mm Wt: 0.1 kg

Accessories: 1008140100 TA-10 Relay Module

1007102000

### Substation Kit

- Complete kit to make a customized substation for the ICX-AlphaCom
- Vandal resistant call button
- Superb audio quality (10 kHz)
- External or extra call button option
- Includes the 1307 substation board, 45 Ohm weather resistant loudspeaker, electret microphone with mounting material, one tamper-proof button and all other necessary station accessories
- Advanced supervision functions
- Can be placed up to 4 km from ICX-AlphaCom Audio Server without local source power



Size printcard (WxHxD): 71 x 90 x 25 Wt: 0.5kg



# IP Amplifiers & Speakers

1023102100

## ENA2100-AC Exigo Network Amplifier 2 X 100W Power

- 2x 100-watt continuous GA effect
- Power efficient class D technology
- 115-230 VAC power
- Redundant Ethernet connections
- Digital audio processing
- Embedded tick tone generator
- Loudspeaker line monitoring
- Supports up to 10 Intelligent Line End Transponders
- Line Input
- 2 configurable control outputs
- 2 configurable control inputs



**Size (WxHxD): 254 x 87 x 308 mm**  
**Weight: 5.75 kg**

Additional Information: IP-32

1023102200

## ENA2200 Exigo Network Amplifier 2 x 200W Power

- 2x 200-watt continuous GA effect
- 2x 200-watt PA effect
- Power efficient class D technology
- 110-230 VAC primary power and 24-48 VDC secondary power
- Redundant Ethernet connections
- Digital audio processing, equalizer and audio delay
- Tick tone generator
- Loudspeaker line monitoring
- Supports up to 10 Intelligent Line End Transponders
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control inputs



**Size (WxHxD): 482 x 87 x 390 mm**  
**Weight: 13.0 kg**

Additional Information: IP-32

1023102400 / 1023102410

## ENA2400-DC / ENA2400-AC Exigo Network Amplifier 2 X 400W Power

- 2x 400-watt continuous GA effect
- 2x 400-watt PA effect
- Power efficient class D technology
- Redundant Ethernet connections
- Digital audio processing, equalizer and audio delay
- Tick tone generator
- Loudspeaker line monitoring
- Supports up to 10 Intelligent Line End Transponders
- Input for backup amplifier
- 6 configurable control outputs
- 6 configurable control inputs
- ENA2400-DC: 48 VDC power
- ENA2400-AC: 110-230 VAC power



**Size (WxHxD): 482 x 87 x 390 mm**  
**Weight: 13.5 kg**

Additional Information: IP-32

1023122061 / 1023122062

## ENA2060-DC1 / ENA2060-DC2 Exigo Network Amplifier 2 Channels, 60W for Rolling Stock

- Two SIP addressable audio channels – 2x60W
- Supports wide set of IP and networking standards
- Easily integrated into existing info concepts
- 100V speaker line technology – ease of cabling with galvanic separation
- UIC Code 558/568 Compatibility
- Supports direct audio routing to wide range of induction loop amplifiers
- Designed and tested according to EN50155
- Designed and tested according to EN45545
- Speaker loop monitoring
- Local audio inputs
- Additional I/Os for various integration options
- Fanless design
- Built to last with robust extruded aluminum frame
- Easy to install and commission with minimum maintenance overhead
- 1023122061 ENA2060-DC1 110VDC
- 1023122062 ENA2060-DC2 24-48VDC



**Size (WxHxD): 84 x 213 x 315 mm**  
**Weight: 5 kg**

Additional Information: IP-42

1023300010

## ELSIR-10C Network Ceiling IP Loudspeaker

- Steel fire dome
- 10W Class D, built-in amplifier
- >100 dB SPL
- Ideal for Micro Zone PA and systems that require a limited number of speakers
- Each speaker is individually addressable and monitored
- Ideal for speakers installed in remote locations, e.g. roads and railways
- Remote software upgrade and configuration
- Relay output for remote control, e.g. doors, signal lamps, gates
- Powered from the IP network cable using Power over Ethernet (PoE)



**Size (Diam x Depth): 199 x 111 mm** Wt: 1.4 kg

1023301310

## ELSII-10H Network Horn IP Loudspeaker

- 10W Class D, built-in amplifier
- Dust and water tight – IP 67
- >116 dB SPL
- Ideal for Micro Zone PA and systems that require a limited number of speakers
- Each speaker is individually addressable and monitored
- Ideal for speakers installed in remote locations, e.g. roads and railways
- Remote software upgrade and configuration
- Relay output for remote control, e.g. doors, signal lamps, gates
- Powered from the IP network cable using Power over Ethernet (PoE)



**Size (WxHxD): 186 x 144 x 207 mm** Wt: 1.8 kg

Related items: 1023303010 EMCG-1 Cable Gland Microphone

# ICX-AlphaCom Platform



Dimensions (WxHxD): 162 x 44.5 x 200 mm Wt: 1 kg

Software: ICX-AlphaCom Core

1002000100

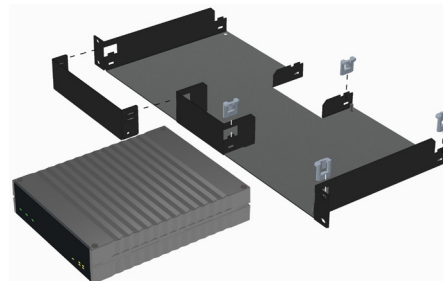
## ICX-500 Intelligent Communication Gateway

- 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
- SD Card based software recovery
- Fully compatible with legacy AlphaCom system
- Large memory supports future feature expansion and new services
- Memory extension via SD card and USB
- High quality professional PA broadcasting and messaging services
- Security voice guidance for public safety and building security
- Auto-attendant functionality (Automatic voice supported switchboard)
- Voice supported call guidance
- Slim and compact
- 1U rack integration
- Fanless design
- Robust powder painted die-cast aluminium housing
- Vibration proof
- Closed ingress protected housing
- Flexible mounting system

1002500010

## IA-RS1 Mounting Bracket for ICX-500

- Using the IA-RS1 Rack Shelf, two ICX-500 units can be mounted side by side in a 19" 1HU rack space.

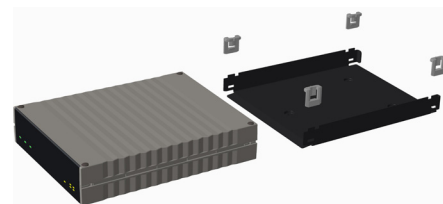


Dimensions (WxHxD): 483 x 44 x 203 mm Wt: 0.5 kg

1002500020

## IA-MB1 Mounting Bracket for ICX-500

- The ICX-500 unit slides into the IA-MB1 Mounting Bracket in 4 possible orientations.
- To fix the bracket to a wall or shelf, use flat head washer screws with a maximum head height of 3 mm.



Dimensions (WxHxD): 202 x 169 x 28 mm Wt: 0.4 kg



Dimensions (WxHxD): 35 x 90 x 55 mm Wt: 0.12 kg

1002500020

## IPS-AC1 PSU for ICX-500

- DIN-Rail mounting
- Ultra slim design with 35 mm (2SU width)
- Input 85-264 VAC, Output 48VDC
- No load power consumption <<0.3W
- Isolation class II
- Pass LPS (Limited Power Source)
- Protections: Short circuit / Overload / Over voltage
- Over voltage category III
- LED indicator for power on

## ICX-AlphaCom Licenses

These are the licenses for running ICX-AlphaCom Core on the ICX-500 Intelligent Communication Gateway. All licenses can be stacked.



1002600000

ICX-AlphaCom Core License

1002600100

ILS-IC IP Station License

1002600700

ILS-SIP SIP Station License

1002602101/1002602102/1002602103

ILI-SIP2/4/8 SIP Trunking, 2/4/8 Lines

1002602001/1002602003

ILI-AN2/ILI-AN8 AlphaNet, 2/8 Lines

1002602201/3/4/5/8/9

ILI-REC2/8/16/32/256/512 Active Recording Interface, 2/8/16/32/256/512 Users

1002606100/3/4/5

ILF-B1/ILF-B8/ILF-B16/ILF-B32

Billing - 1/8/16/32 External Trunks / All Users

1002600200

ILS-CRM IP Station License for CRM

1002600300

ILS-SC SoftClient License

1002602306/1002602309

ILI-API64/ILI-API512 API for 64/512 Stations

1002604000

ILF-M-BAS Basic Audio Messaging License

1002604100

ILF-M-ENH Enhanced Audio Messaging License

1002604200

ILF-M-EXT Enhanced Audio Messaging with Extended Storage

1002606006/1002606008/1002606009

ILR-U64/ILR-U256/ILR-U512

Redundancy License for 64/256/512 Users

# AlphaCom Audio Servers

1009608000

## AlphaCom XE7 Package

- Wall, shelf or 19" rack mounting
- Complete system with 1 Power Supply Board, 1 Processor Board, 2 ASLT cards, 2 Connection Kits
- Max subscriber capacity: 552 IP stations. A combination of technologies allows max 36 traditional intercom units or max 72 analog telephones out of 552 stations



**Size (WxHxD): 427 x 133 x 380mm Wt: 9kg**

Accessories: 2030010260 Mains Transformer 6A or 2030010270 Mains Transformer 11A, AlphaPro Software

1009608100

## AlphaCom XE7 Package with 1 ASLT

- Wall, shelf or 19" rack mounting
- Complete system with 1 Power Supply Board, 1 Processor Board, 1 ASLT card
- Max subscriber capacity: 552 IP stations. A combination of technologies allows max 36 traditional intercom units or max 72 analog telephones out of 552 stations



**Size (WxHxD): 427 x 133 x 380mm Wt: 9kg**

Accessories: 2030010260 Mains Transformer 6A or 2030010270 Mains Transformer 11A, AlphaPro Software

1009608106

## AlphaCom XE7 with License for 6 IP Stations & 1 ASLT

- Wall, shelf or 19" rack mounting
- Complete system with 1 Power Supply Board, 1 Processor Board, 6 IP Station Licenses, 1 ASLT card
- Max subscriber capacity: 552 IP stations. A combination of technologies allows max 36 traditional intercom units or max 72 analog telephones out of 552 stations



**Size (WxHxD): 427 x 133 x 380mm Wt: 9kg**

Accessories: 2030010260 Mains Transformer 6A or 2030010270 Mains Transformer 11A, AlphaPro Software

1009608300

## AlphaCom XE7 with License for 12 IP Stations

- Wall, shelf or 19" rack mounting
- Complete system with 1 Power Supply Board, 1 Processor Board, 12 IP Station Licenses
- Max subscriber capacity: 552 IP stations. A combination of technologies allows max 36 traditional intercom units or max 72 analog telephones out of 552 stations



**Size (WxHxD): 427 x 133 x 380mm Wt: 9kg**

Accessories: 2030010260 Mains Transformer 6A or 2030010270 Mains Transformer 11A, AlphaPro Software

1009621000

## AlphaCom XE20 for 19" Rack Mounting

- 19" rack mounting
- Complete system with APWR-AC version Power Supply, 1 Processor Board, 1 Program & Clock Board, 2 Subscriber Line Boards, 2 x 1.5 m flat ASLT connection cable with filter board
- Subscriber capacity: 552 IP stations. A combination of technologies allows max 102 traditional intercom units or max 204 analog telephones out of 552 stations



**Size (WxHxD): 482 x 265 x 365mm Wt: 19kg**

Accessories: AlphaPro Software, 1009503000 APC Connection Kit if audio input and/or remote control input is required

1009627000

### AlphaCom XE26 for 19" Rack Mounting

- 19" rack mounting
- Complete system with APWR-AC version Power Supply, 1 Processor Board, 1 Program & Clock Board, 2 Subscriber Line Boards, 2 x 1.5 m flat ASLT connection cable with filter board
- Subscriber capacity: 552 IP stations. A combination of technologies allows max 138 traditional intercom units or max 276 analog telephones out of 552 stations



**Size (WxHxD): 483 x 841 x 365mm Wt: 42kg**

Accessories: AlphaPro Software, 1009503000 APC Connection Kit if audio input and/or remote control input is required

1009627001

### AlphaCom XE26 for 19" Rack Mounting

- High availability Audio Server including multiple functions to reduce and minimize system downtime
- Complete system with 2 Processor Boards AMC-IP with automatic switch over, 2 Power Supplies APWR AC-version, 2 AMC-IP Filter Cards, 1 Program & Clock Board APC equipped with microcontroller, 2 Subscriber Line Boards, 2 x 1.5m flat ASLT connection cable with Filter Board



**Size (WxHxD): 483 x 841 x 365mm Wt: 45kg**

Accessories: AlphaPro Software, 1009503000 APC Connection Kit if audio input and/or remote control input is required

1009627100

### AlphaCom XE26 Floor Cabinet

- Floor cabinet, supported with extra side and top panels
- Complete system with APWR-AC version Power Supply, 1 Processor Board, 1 Program & Clock Board, 2 Subscriber Line Boards, 2 x 1.5 m flat ASLT connection cable with filter board
- Subscriber capacity: 552 IP stations. A combination of technologies allows max 138 traditional intercom units or max 276 analog telephones out of 552 stations



**Size (WxHxD): 483 x 841 x 593mm Wt: 46kg**

Accessories: AlphaPro Software, 1009503000 APC Connection Kit if audio input and/or remote control input is required

1009627200

### AlphaCom XE26 Floor Cabinet with Distribution Field

- Floor cabinet with distribution field, supported with extra side and top panels
- Complete system with APWR-AC version Power Supply, 1 Processor Board, 1 Program & Clock Board, 2 Subscriber Line Boards, 2 x 1.5 m flat ASLT connection cable with filter board
- Subscriber capacity: 552 IP stations. A combination of technologies allows max 138 traditional intercom units or max 276 analog telephones out of 552 stations



**Size (WxHxD): 483 x 841 x 593mm Wt: 53.5kg**

Accessories: AlphaPro Software, 1009503000 APC Connection Kit if audio input and/or remote control input is required

1009627002

### XE20/XE26 High Availability Extension Package

- For upgrading of existing AlphaCom XE20 or XE26 to have redundant control cards
- 1009202100 AMC-IP Card
- 1009511000 AMC-IP filtercard and APC Upgrade Kit

**Wt: 0.6kg**

Accessories: All AlphaCom XE20 and XE26 Audio Servers

## Analog Stations

Analog Stations only work with AlphaCom

1008114010

### TCAS-1

- Analog MEMS microphone
- Unique 3D speaker grille design
- Dirt, dust and water resistant - rating IP-66
- Built to last with robust die cast aluminium frame - rating IK 08
- Yellow thermoplastic front plate with one button plus M and C
- Ideal for Industrial applications



**Size (WxHxD): 120 x 180 x 54mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140030 TA-3 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1008114020

### TCAS-2

- Analog MEMS microphone
- Unique 3D speaker grille design
- Dirt, dust and water resistant - rating IP-66
- Built to last with robust die cast aluminium frame - rating IK 10
- Stainless steel front plate with one button
- Ideal for Building Security and Public Environments



**Size (WxHxD): 120 x 180 x 54mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140030 TA-3 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1008114030

### TCAS-3

- Analog MEMS microphone
- Unique 3D speaker grille design
- Dirt, dust and water resistant - rating IP-66
- Built to last with robust die cast aluminium frame - rating IK 08
- Black thermoplastic front plate with one button
- Ideal for Building Security and Public Environments



**Size (WxHxD): 120 x 180 x 54mm Wt: 0.8kg**

Accessories: 1008140010 TA-1 Turbine Compact On Wall Box, 1008140030 TA-3 Turbine Compact Flush Back Box, 1008140140 TA-14 Microphone Windscreen for TCIS/TCIV

1007042000

### Wall Master Station with Display

- Fully equipped analog master station with free access to all extensions and features
- 8 freely programmable single touch keys (DAK)
- 2 x 16 character alphanumeric display
- Private / Open switch
- Red 'microphone live' lamp
- Built-in 63 Ohm / 1 W loudspeaker
- Adjustable loudspeaker volume



**Size (WxHxD): 125 x 280 x 53mm Wt: 0.8kg**

Accessories: Requires 1000602000 Flush Mount Back Box or 1000603000 On Wall Back Box

1007040000

### Wall Master Station, Standard

- Fully equipped analog master station with free access to all extensions and features
- Private / Open switch
- Built-in 63 Ohm / 1 W loudspeaker
- Adjustable loudspeaker volume
- Excellent sound quality



**Size (WxHxD): 125 x 280 x 53mm Wt: 0.6kg**

Accessories: Requires 1000602000 Flush Mount Back Box or 1000603000 On Wall Back Box

1007007000

### Dual Display Station

- Desktop master station with optional gooseneck microphone module
- Up to 90 freely programmable direct access keys (DAK) on nine pages with information text for each key on the display
- Four navigation keys for quick access to system menus and directory entries
- Status information, guidance and menus are shown on a large 4 line graphic display
- Requires separately ordered station cable



**Size (WxHxD): 72 x 140 x 270mm Wt: 0.4kg**

Accessories: 1009800130/115 Station Cable with RJ45 connector, 1007007010 Microphone for Dual Display Station

2213000300

### VAF-1 Analog Flush Telephone with Relay Output

- Console telephone
- Supports DTMF
- Double ringing tone selection for dual telephones in same area
- Solid construction
- Adjustable backlight
- Volume control
- Relay output



Size (WxHxD): 170 x 280 x 84 mm Wt: 0.6 kg

1007056100

### Vandal Resistant Substation

- Made for critical communication
- Vandal resistant
- Design in stainless steel (A304) to withstand corrosion
- Vandal resistant call button
- Superb audio quality (10 kHz)
- Advanced supervision functions
- External or extra call button option



Size (WxHxD): 92 x 180 x 25mm Wt: 0.8kg

Accessories: 1008098100 Flush Mount Back Box, 1008098000 On Wall Back Box, 1008098001 On Wall Back Box

1007080000

### Light Industrial Master Station

- Fully equipped splashproof master station with free access to all extensions and features
- Splashproof, flame and chip resistant plastic casing
- Keyboard foil of UV-cured PVC
- Resistant to corrosive fluids
- Electret microphone & red microphone live lamp
- Built-in loudspeaker, MIC, & LED
- Built-in 10W VOX-operated amplifier for additional power output
- Screw terminals for easy connection of installation cables
- Optional external speaker can be connected



Size (WxHxD): 124 x 244 x 63mm Wt: 0.9kg

1007086000

### Industrial Master Station

- Master station with free access to all extensions and features
- Rugged waterproof and dustproof casing in orange aluminium alloy
- Microphone along with red microphone live lamp
- External loudspeaker. Sound level adjustable with a potentiometer inside the station
- Built-in 10 W (8 ohm) VOX operated power amplifier or external loudspeaker
- Screw terminals for easy connection of installation cables
- Equipped with 4 direct access keys



Size (WxHxD): 160 x 260 x 100 mm Wt: 1.1 kg

2213000200

### KNSP-01 Heavy Duty Analog Telephone with Door

- 5mm aluminium casing
- External ringer unit recommended such as HB-90, HB-105 or CRB-7 with signal light
- Door has smart stay-open or stay-shut mechanism
- Wall mounting plate included
- Magnetic reed hook-switch gives minimal wear and tear
- Powered by phone line



Size (WxHxD): 205 x 320 x 140mm Wt: 5.4kg

2213000100

### KNSP-09 Heavy Duty Analog Telephone

- Made for industrial environment
- 5mm aluminium casing
- External ringer unit recommended such as HB-90, HB-105 or CRB-7 with signal light
- Powered by phone line
- Full phone keypad plus special function keys
- Wall mounting plate included
- Magnetic reed hook-switch gives minimal wear and tear



Size (WxHxD): 205 x 320 x 120mm Wt: 5kg

# ICX-AlphaCom Application Software



1191101000

Vingtor-Stentofon Operator Basic License

1191101010

Vingtor-Stentofon Operator Enhanced License

## AlphaPro

AlphaPro is the tool for configuring the ICX-AlphaCom system. It is self-contained, simple to install and easy to use. When a new server is to be configured, the server is given a working default factory setting.

The operator can then modify the settings such as:

- Directory (type of station, line interface, display name and more)
- Define groups (cell groups, guard groups)
- Interface to CCTV, PA, paging, DECT
- AlphaNet
- And other custom behaviour

There are currently over 100 defined features which can be programmed with AlphaPro. AlphaPro is an off-line tool. This means that it is possible to enter all parameters without the necessity of being connected to the server. Once all parameters are entered, AlphaPro can be connected to the server and the parameters can be sent. AlphaPro can also upload configuration information from a server.

- AlphaPro connects to a server via the IP network or a local RS232 interface
- AlphaPro E7 runs without a hardware key. It gives access to all features except AlphaNet, but only for 36 subscribers

AlphaPro Professional uses the Professional hardware key. It gives access to all features for all stations. This version must be used when extensive changes to the autoloader are required.

1009291120

AlphaPro professional, USB dongle

## Vingtor-Stentofon Operator

Vingtor-Stentofon Operator is a PC-based system management package for the ICX-AlphaCom platform. It shows the status of intercom devices using maps and makes it easy for operators to:

- View calls and call requests
- Act easily and quickly on events and requests
- Store an onscreen history of events through a Journal

Vingtor-Stentofon Operator is primarily intended for use in a control room environment. It provides a clear overview for operators with multiple layout possibilities according to the operator's preference. Layouts can be defined to cover single or multiple screens and can be added, edited and deleted by administrators.

## Software Development Kit

The Software Development Kit (SDK) makes it easy for 3rd party developers to make value added applications for integration with the ICX-AlphaCom system. The SDK is based on Microsoft .NET technology. This gives the 3rd-party developer access to a wide set of software components as well as an extensive Microsoft .NET development environment and tool set. Some examples of applications which are possible to make using the SDK:

- Integrated control room panel on a touch-screen for public address, radio and intercom

- Interactive intercom icons on a map with ability to call, broadcast public address, and listen in
- Integration with video analytics to provide voice response if someone is trespassing
- Integration with CCTV, where a camera is switched on Voice Activity Detection
- PC based Call Handler with graphical user interface for control rooms and guards

The SDK consists of a number of assemblies (DLLs) which can easily be integrated with software written in C#.

To further support 3rd-party developers, help files, a quick start manual, Wiki

pages and example applications including source code are available to get you fast up to speed with writing value-added applications for the ICX-AlphaCom system.

To get access to the SDK, please visit: [www.zenitel.com/sdk-alpha.com](http://www.zenitel.com/sdk-alpha.com)

## OPC

OPC provided easy and fast integration based on standard OPC technology. The OPC license is installed on the ICX-AlphaCom platform.

The ICX-AlphaCom OPC Server implements the following OPC standards:

- OPC Data Access (OPC DA V2/V3)
- OPC Alarm & Events (OPC AE V1.1)
- OPC Unified Architecture (OPC UA)

## Audio Messaging

With Audio Messaging you can store and play audio messages directly from your PC or intercom station, and the messages are safely stored in the flash memory of the ICX-AlphaCom system. Audio Messaging supports a wide set of applications including auto-attendant, PA broadcasting, voice response and voice driven menus. It is easy to initiate audio messages from 3rd party systems using OPC, SDK or Data Protocol. Make live PA and group call broadcasts with recall for handling feedback and verifying messages. Schedule PA and group broadcasts for specific events and set up an auto-attendant with voice guided menus for handling incoming calls. You can also set up a voice response for call request waiting messages and absence messages. The feature set of the license is compatible with that of the ASVP card, but offers some important functionalities in addition.

## VS-Recorder

- ICX-AlphaCom Call Recording
- Audio and Video Stream Recording

The Vingtor-Stentofon Recorder software is a fully-featured IP based audio recorder with additional support for video recording. The solution is able to record calls from all types of terminals connected to ICX-AlphaCom: analog and IP intercoms, analog and IP phones. The Recorder is also an NAVR – Network Audio/Video Recorder.

**1190110100**

VS Recorder – Base Module

**1190110110**

VS Recorder – Playback/Configuration Client

**1190110120**

VS Recorder – AlphaCom Recording Module

**1190110121**

VS Recorder – AlphaCom Recording Module, AddOn

**1190110131**

VS Recorder – Stream Recording Module, 1 stream

**1190110138**

VS Recorder – Stream Recording Module, 8 streams

**1190110150**

VS Recorder – Enterprise Management Server

**1190110160**

VS Recorder – API

**1190110180**

VS Recorder – Secure Audio Export



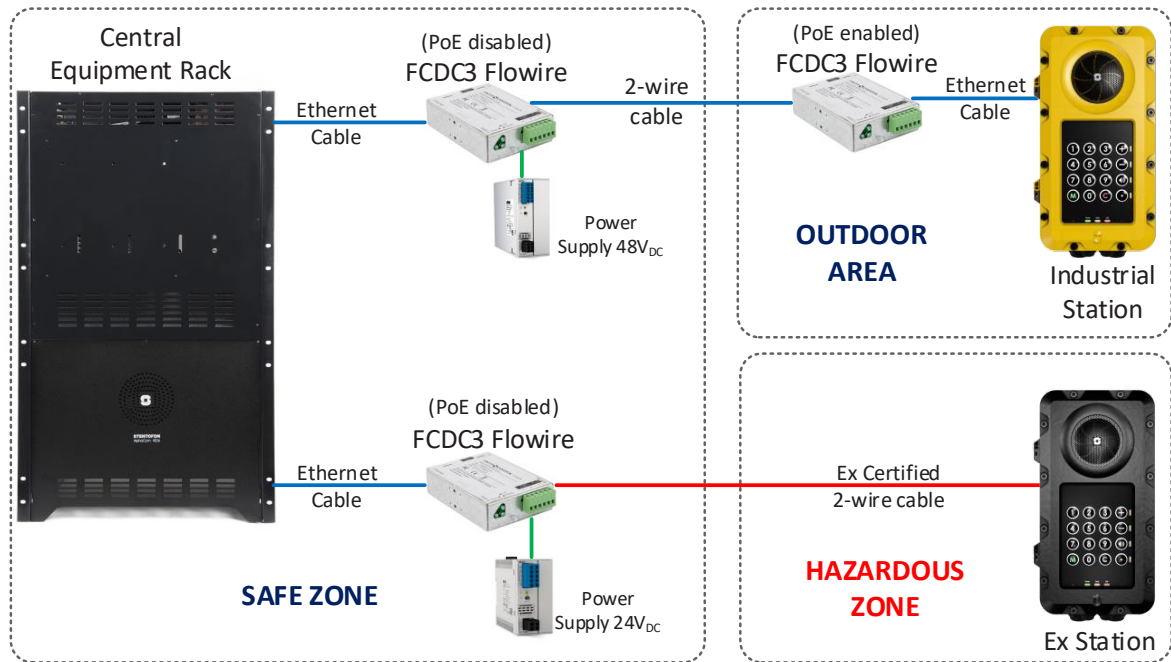
# Flowire Converter

The Flowire Converter enables Ethernet to run on the same 2 wires as power, enabling simpler cabling and opens up for longer cable hauls.

## Connection to Central Equipment Rack for Outdoor and Ex Intercom Stations

The intercom stations can use the 2-wire Flowire system for connection. Flowire is used to extend the Ethernet connection and support power distribution on the 2-wire cabling infrastructure.

The Ex station located in the hazardous zone is connected to the central equipment rack located in the safe zone using an Ex certified 2-wire cable.



1008080310

### FCDC3 Flowire Ethernet Converter

- One single pair of cable can be used to distribute power and data
- The cable hauls can be longer, up to 2 km, reducing the need for switches and/or repeaters
- Up to 10 Flowire devices can be connected to the same 2-wire cluster star topology
- Existing infrastructure can be used, even though only a single pair is available. This reduces the total cost of retrofit projects
- The Flowire converter can be used with any Ethernet enabled device (not limited to Vingtor-Stentofon products)
- Enable/Disable PoE switch
- Ingress Protection Rating: IP-20
- Important:** 24V DC non-PoE for Ex equipment



Size (WxHxD): 112 x 74 x 26 mm

Weight: 0.3 kg

2990000063 / 2990000064

### Power Supply 100-240VAC 24VDC 2A/4A

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC 0 K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1, PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module



Size (WxHxD): 52 x 90 x 119 mm, Weight: 410 g

2990000065 / 2990000066

### Power Supply 100-240VAC 48VDC 2A/5A

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC 0 K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1, PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module



Size (WxHxD): 55 x 127 x 172 mm, Weight: 930 g

# Licenses

## IC-EDGE Licenses



### 1009661001

1 x IC-EDGE Station License

### 1009661006

6 x IC-EDGE Station License

### 1009661101

1 x IC-EDGE VS-Client Extensions

### 1009661106

6 x IC-EDGE VS-Client Extensions

### 1009661201

1 x IC-EDGE SIP-Client Extensions

### 1009661206

6 x IC-EDGE SIP-Client Extensions

### 1009662001

IC-EDGE TelTrunk

## AlphaCom XE Licenses

IP stations require a license. They do not require additional hardware such as an ASLT card. The maximum number of stations that is supported by AlphaCom XE Audio Servers is 552.

### 1009641001

IP station license for 1 station

### 1009641006

IP station license for 6 stations

### 1009641012

IP station license for 12 stations

### 1009641036

IP station license for 36 stations

### 1009641138

IP station license for 138 stations

**AlphaNet** and multi-module linking for the AlphaCom XE Audio Servers can be via data networks. This does not require additional hardware inside the server, but opening up the capability requires the correct licence. Licenses are required in all connected modules and nodes. There is no difference whether a license is used for an AlphaNet or a multi-module connection. A static license means that the destination of an audio link needs to be defined at commissioning, a dynamic link is a common resource, and can be used for any audio link that requires connection. The data links between modules and nodes are not licensed.

### 1009640002

AlphaNet and Multi-Module VoIP License for 2 Static Lines

### 1009640008

AlphaNet and Multi-Module VoIP License for 8 Dynamic Lines

### 1009640016

AlphaNet and Multi-Module VoIP License for 16 Dynamic Lines

### 1009640030

AlphaNet and Multi-Module VoIP License for 30 Dynamic Lines

### 1009640108

AlphaNet and Multi-Module VoIP License for 8 Dynamic Lines, upgrade from 2 lines

The multi-module license gives the possibility to expand the size of an Audio Server. It is possible to add up to 4 modules in a multi-module Audio Server. The modules will be linked together over a local area IP network (LAN). 30 VoIP channels are available in each server module. Note that the license is only required in the master module in the multi-module server.

### 1009640202

Multi-Module VoIP license - 2 Modules

### 1009640203

Multi-Module VoIP license - 3 Modules

### 1009640204

Multi-Module VoIP license - 4 Modules

### 1009640211

Multi-Module VoIP license, upgrade + 1 module

**SIP Trunking** gives the possibility to connect an AlphaCom XE to a telephone network, either directly to a SIP enabled telephone system or through a gateway to an analog or ISDN (BRI or PRI) system.

### 1009642001

SIP Trunking, 1 line

### 1009642002

SIP Trunking, 2 lines

### 1009642004

SIP Trunking, 4 lines

### 1009642104

SIP Trunking, 4 lines - upgrade from 2 lines

### 1009642008

SIP Trunking, 8 lines

### 1009642016

SIP Trunking, 16 lines

Each **SIP** telephone requires a SIP station license. SIP telephones can be physical units but also SIP softphone clients on a PC or PDA.

### 1009643001

SIP station license for 1 SIP telephone

### 1009643012

SIP station license for 12 SIP telephones

### 1009643006

SIP station license for 6 SIP telephones

### 1009643036

SIP station license for 36 SIP telephones

### AlphaCom Mode Licenses for Exigo Amplifiers

Each amplifier channel consumes one license, but two channels can be combined into one on an amplifier to save on licensing.

**1009641701**

License for 1 Exigo Amplifier Channel

**1009641702**

License for 2 Exigo Amplifier Channels

**1009641703**

License for 3 Exigo Amplifier Channels

**1009641706**

License for 6 Exigo Amplifier Channels

**1009641712**

License for 12 Exigo Amplifier Channels

**1009648510**

High Bandwidth Audio License

### OPC Interface Licenses

**1009649901**

OPC interface supporting 40 stations

**1009649902**

OPC interface supporting 80 stations

**1009649903**

OPC interface supporting 160 stations

**1009649904**

OPC interface supporting 240 stations

**1009649905**

OPC interface supporting 320 stations

**1009649906**

OPC interface supporting 400 stations

**1009649907**

OPC interface supporting 552 stations

### Audio Messaging Licenses

**1009648500**

#### Basic Audio Messaging License

License requires AMC IP v11 hardware. Includes Delayed PA broadcast using recall to prevent feedback problems, 1 auto-attendant message, 2MB memory storage for audio messages.

**1009648501**

#### Enhanced Audio Messaging License

License requires AMC IP v11 hardware. Includes Delayed PA broadcast using recall to prevent feedback problems, 3 auto-attendant messages, 10MB memory storage for audio messages, Full ASVP functionality.

**1009648502**

#### PA Recall License

License can be installed on both AMC IP v10 and v11 hardware. Includes Delayed PA broadcast using recall to prevent feedback problems.

### Active Recording Interface Licenses

**1009648092**

Active recording interface - 2 users

**1009648093**

Active recording interface - 6 users

**1009648094**

Active recording interface - 12 users

**1009648095**

Active recording interface - 36 users

**1009648096**

Active recording interface - 72 users

**1009648097**

Active recording interface - 138 users

**1009648098**

Active recording interface - 276 users

**1009648099**

Active recording interface - 552 users

### Billing Licenses

**1009647902**

Billing - 2 external trunks / 400 users

**1009647904**

Billing - 4 external trunks / 400 users

**1009647908**

Billing - 8 external trunks / 400 users

**1009647916**

Billing - 16 external trunks / 400 users

**1009647932**

Billing - 32 external trunks / 400 users

