zenitel

DATASHEET

1009621000

AlphaCom XE20

Audio Server for 19" Rack Mounting



ICX ICX-AlphaCom HD Voice

Description

- Made to provide critical communication in any environment
- Supports 552 IP stations and 102 analog intercom stations
- Global networking and integration
- IP, SIP and analog station support
- Extended Software Options
- SIM card based software configuration and disaster recovery
- Fully compatible with any AlphaCom system

www.zenitel.com info@zenitel.com Last revision date: 2023-09-29 10:42

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- Extended memory supports future expansion and new services
- 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

Complete system with APWR-AC version Power Supply, 1 Processor Board, 1 Program&Clock Board, 2 Subscriber Line Boards, and 2 x 1.5m. flat ASLT connection cable with filter board.

With AlphaCom XE, flexibility is key. You can have just a few or thousands of users spread around different locations. Thanks to its open, modular design and scalable architecture, AlphaCom XE has the flexibility to grow with your business and adapt to your long term needs. The system can be tailored to support applications of almost unlimited specificity and complexity.

Vingtor-Stentofon's CCoIP® (Critical Communication over IP) implies the employment of Voice over IP applications required in critical situations. AlphaCom XE is designed with CCoIP incorporation which ensures the delivery of instant and secure voice and data services. The AlphaCom XE system provides carrier class system availability and protects resources in an IP environment by using embedded IP security mechanisms.

The main security mechanisms used are restricted management access, separate management interface, internal firewall and integrity check (MD5).

CONNECTIONS
Up to 4 units may be mounted in one 19" rack if sufficient ventilation is provided. It is recommended to mount a 24 VDC cooling fan module on top of each exchange unit. The two-pair star wired intercom cables are connected to connection boards on the cabinet DIN rail or in a separate distribution field.

Each subscriber line card provides 6 freely programmable Remote Control Outputs (RCO). Two RJ-45 Ethernet terminals on the IP filter board are used for IP LAN and WAN communication. The serial ports with RS232 and RS422/RS485 interfaces are used for connecting to equipment using these protocols. Eth0 is also used for programming. 6 program distribution sources can be connected to the APC board via an optional program connection board. Up to 64 extra programs may be added using AGA boards with 16 programs per board. The optional program connection board has input for 6 Remote Control Inputs (RCI) which can initiate programmed actions.

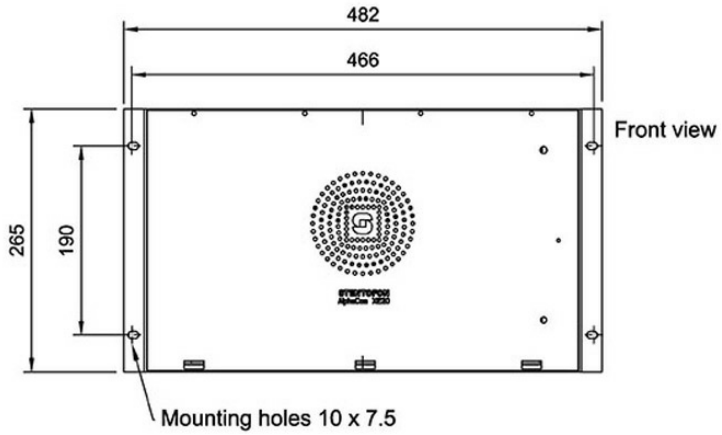
The exchange is powered from the mains.

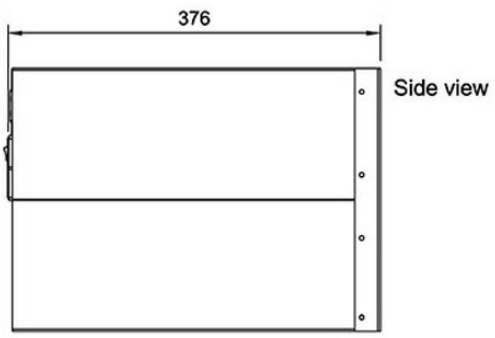
See also: additional documentation on wiki.zenitel.com | AlphaCom feature page

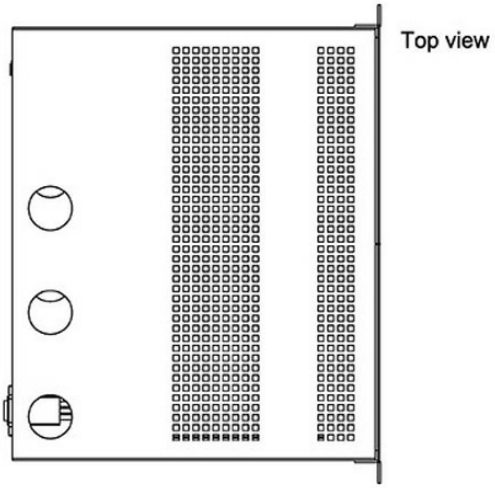
Technical Dimensions

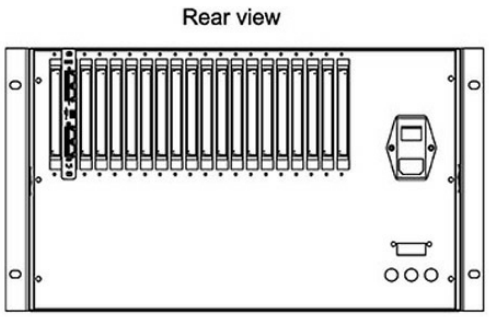
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Specifications

MECHANICAL & ENVIRONMENTAL

Dimensions (WxHxD)	482 x 265 x 365 mm / 18.97 x 10.43 x 14.37 inch.
Weight	37.47 lbs.
Power	90-270 V AC 550 W max.
Mounting	19” rack
Processor subsystem	Intel IXP425 with HW acceleration for packet processing and
Media subsystem	DSP @ 1600 MIPS, FPGA @ 400K gates
Storage subsystem	Solid state (64 MB Flash), SIM card (IP configuration, HW-iD)
Memory	128 MB SDRAM, 1 MB NVRAM
Subscriber Capacity	552 intercom stations per server
Temperature Range	-15°C – +55°C
Relative Humidity	95%

FEATURES

Analog Stations	6 per line card
Analog Telephones	12 telephones per line card
Busy Hour Call	60 000 BHCA
IP Telephones	552 IP telephones per server
Integrity check	MD5 (RFC 1321)

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IP priority	DiffServ, IP TOS
IP security	SSH, HTTPS, firewall
SIP	RFC 3261, SIP INFO, RE-Invite, RFC 2833, RFC 4733
VoIP Internal Networking	30 channels
VoIP External Networking	30 channels
ISDN Trunk	ISDN PRI (30 channels)
Analog Trunk	FXO (4 & 8 channels)
GSM Trunk	Quad band GSM
Other	Custom ASCII (EDIO), Vingtor-Stentofon Data, Scripting engine
Configuration	AlphaPro over IP, Web
Monitoring and logging	SNMP trap, SNMP MIB, syslog, Web, e-mail, SqLite
SW Upgrade	Web, Automatic upgrade of IP station
Internal Audio Format	1-bit (18.5 kHz)
Analog Stations	18.5 kHz audio
General Audio Interface	18.5 kHz audio
VoIP Audio	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 16 subscribers can participate in conferences simultaneously.
Push to Talk Conference	50 conference channels, Unlimited number of participants. Priority features

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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, EN 60950, FCC Part 15

Accessories



LCM

Line Connection Module

Item Number: 1009950100



AlphaPro Professional

USB Dongle

Item Number: 1009291120



AMC-IP Version 11

Processor Board for AlphaCom XE and ESC1

Item Number: 1009202100

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