NEO+

EN 54 -16
Certificate No. 0370-CPR-3260

AES 67

PUBLIC ADDRESS, BACKGROUND MUSIC AND VOICE ALARM SYSTEM

LDA audioTech

NEO+

SCALABLE PROJECTS
WITH MAXIMUM POWER

NEO+ is an advanced EN 54-16 certified public address, background music and voice alarm system that offers maximum flexibility and power, with high-performance features that put it at the forefront of state-of-the-art technology.

Designed for medium to large installations, NEO+ reduces time and costs thanks to its plug-and-play philosophy, which facilitates all installation, maintenance and system operation procedures.

MADE IN
SPAIN

EN 54 -16
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NEO+

PUBLIC ADDRESS AND VOICE ALARM SYSTEM

EN 54-16 certificate and international certifications (Middle East Civil Defense, EAC)

Plug-and-play scalable system. Easy and intuitive use both in local and remote mode

Maximum security and robustness

Dual redundant controller configuration

AES67 and Dante® digital audio protocols

NEO+ MAIN CONTROLLER
FEATURES

1 VERSATILITY
For centralized
or distributed projects

2 CORE
Managing and monitoring
each element of the
NEO+ system

3 ALL-IN-ONE
Includes all the
functionalities required for
an EN 54-16 system

4 SCALABLE
Through the 4-channel
and 8-channel
NEO+ Extension units

Rear view ▶

Backup power input 24 V DC ❶

8 Class D amplifiers, each 120 W ❷

Contact closure interface with fire detection panel ❸

Line supervision and standby amplifier ❹

8 24 V outputs for attenuator control ❺

8 EOL device inputs ❻

Microphone bus and remote panel ❼

14 GPIO closures for integration ❽

8 pre-amplified audio outputs ❾

5 balanced analogue audio inputs ❿

Triple IP interface ⑪

RS-485 port for integrations ⑫

RS-485 interface ⑬
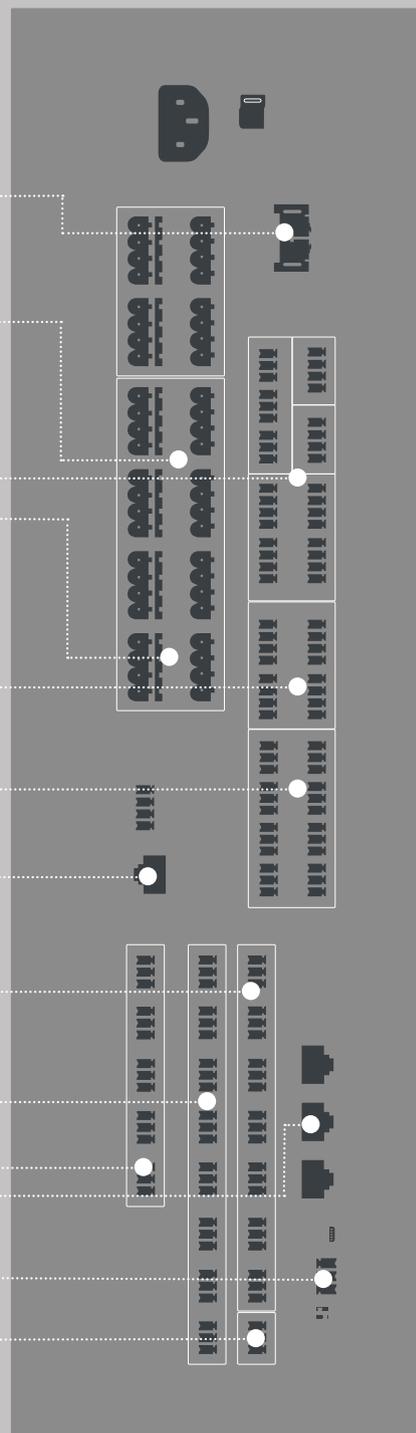
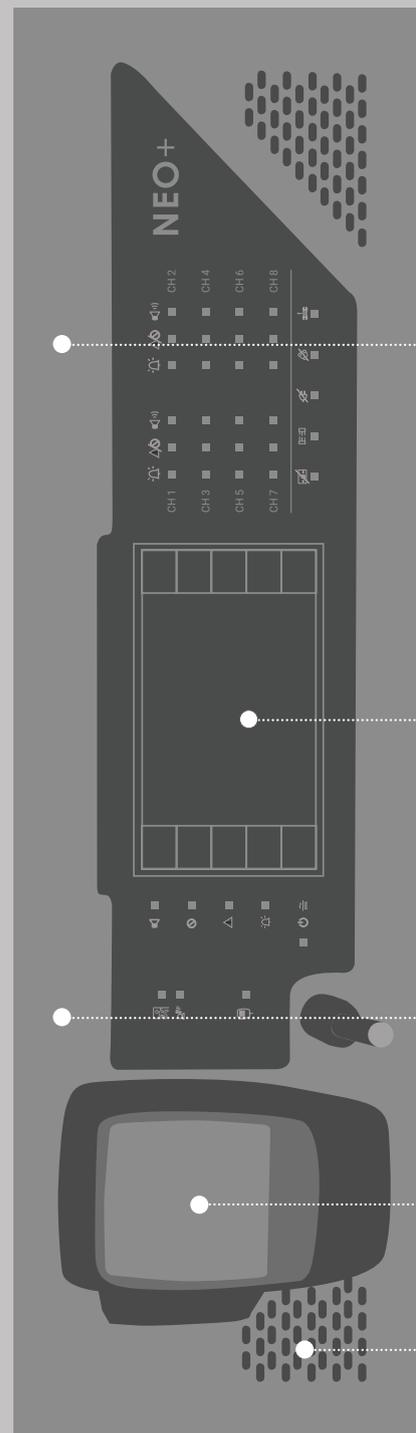◀ Front view

NEO+
Master controller

NEO+

❶ Dual player for pre-recorded messages (13 hours / 99 messages / up to 10 minutes per message)

❷ 4.3" color, touch-screen display

❸ Digital audio matrix (40 inputs and up to 1024 zones)

❹ Supervised emergency microphone

❺ Monitor speaker

NEO+
EXTENSION

EN 54 -16

Certificate No. 0370-CPR-3261

GO FURTHER WITH NEO+ EXTENSION

NEO+ can manage multiple alarm zones easily and intuitively. As a single controller it can handle 1024 zones, and can work without zone limitation when in multi-controller mode.

Through a IP loop connection, the NEO+ main controller transmits encrypted digital audio and control signals to each of the system's areas.

NEO+ automatically recognizes all the connected NEO+ Extension units and expands the zones according to the desired configuration in each installation.
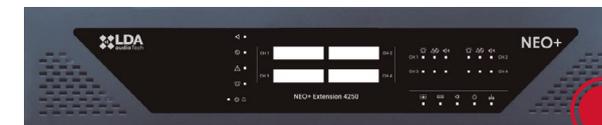
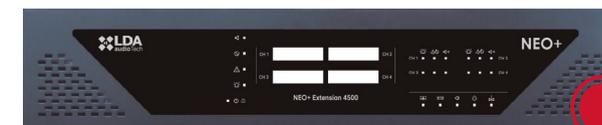EN 54-16 certified

NEO+ EXTENSION 4250E

4 channels / 1000 W power sharing
(max. 500 W per channel)

EN 54-16 certified

NEO+ EXTENSION 8250E

8 x 250 W

EN 54-16 certified

NEO+ EXTENSION 4500E

4 channels / 2000 W power sharing
(max. 1000 W per channel)

EN 54-16 certified

NEO+ EXTENSION 4500LE

4 x 500 W @4 Ω

∩EXO
AES67

**EN 54**

EXPAND YOUR NEO+ SYSTEM TO INFINITY

NEXO is an IP network audio converter that allows to expand the connectivity of the NEO+ system exponentially, thanks to its AES67 layer 3 technology.

A NEO+ system can connect up to 128 NEXO units inside or outside its network ring. Each of them allows the connection of 32 additional devices, be they microphones or evacuation panels, using the ACSI Net protocol.

A total of up to 4,096 ACSI devices to provide EN 54 certified connectivity in large distributed projects.

ACSI Net
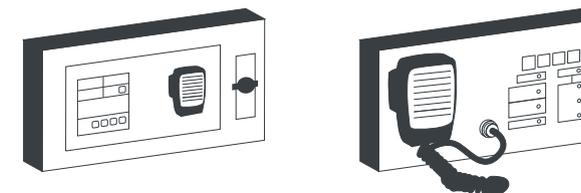
DISTRIBUTED SYSTEMS FOR LARGE PROJECTS

• High quality 48 kHz 1 ms AES67 IP audio transmission and reception.

• ACSI v2 protocol with the ability to connect up to 32 devices on the bus: MPS-8Z+, MPS-8Z, VAP-1 and VAP1-FES.

• Integrated DSP. 2x2 audio channels.

• ACSI Net audio channel encryption.

• System status LED indicators (Power, Fault, Failure and Emergency).

• Compatible with all LDA systems.

OPTIMIZE NEO+ WITH OUR EVAC PLATFORMS

Now you can control and supervise all the devices in your NEO+ system from a desktop application.

Thanks to the innovative cloud-based technologies developed by our R&D team, you can make your public address and voice evacuation system globally accessible.

You will be able to optimize material and maintenance resources, especially in multi-site systems, where remote management facilitates all control and supervision processes.

EVAC Control

EVAC Cloud

EN 54 -16 AES67 AI-Ready

EVAC CONTROL

EN 54 LOCAL MANAGEMENT AND SUPERVISION

EVAC Control is a management and supervision platform for local EN 54 public address and voice evacuation systems NEO+ and NEO, both single and multi-site. Through an eCore device, the app controls PA and BGM functions and includes a calendar module for scheduling pre-recorded messages.

EVAC CLOUD

REAL-TIME NOTIFICATION AND REMOTE TROUBLESHOOTING

EVAC Cloud enables remote monitoring and connection EN 54 for alarm management in NEO+ and NEO systems. It offers secure remote access according to the Euralarm/CoESS Cybersecurity Framework for advanced functions through NEO Configurator and using an EVAC Core device. The platform is AI-Ready, in future versions it will incorporate predictive algorithms based on artificial intelligence.

Renewable subscription

The EVAC Cloud platform provides access to remote control services through a yearly renewable subscription.

PUBLIC ADDRESS AND VOICE EVACUATION SYSTEM

MULTISERVICE IP NETWORK

INTERNET CLOUD

Dante-16

NEXO

NEXO

Audio source or A-1 microphone

Audio source or A-1 microphone

MPS-8Z+

MPS-8Z+

BUILDING 1

BUILDING 2

BUILDING 3

BUILDING 'n'

FLEXNET RING EN 54 IP NETWORK

EVAC Cloud
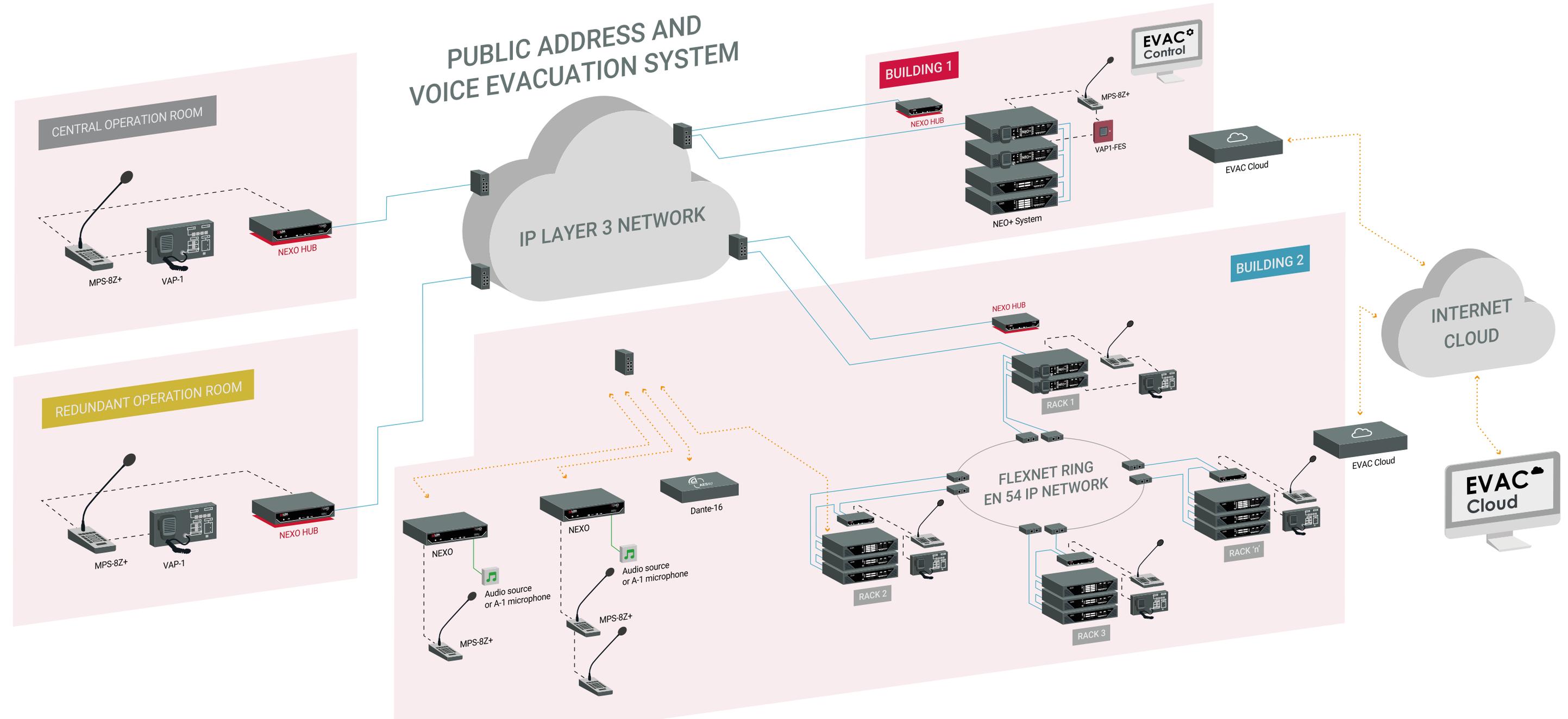
EVAC Cloud
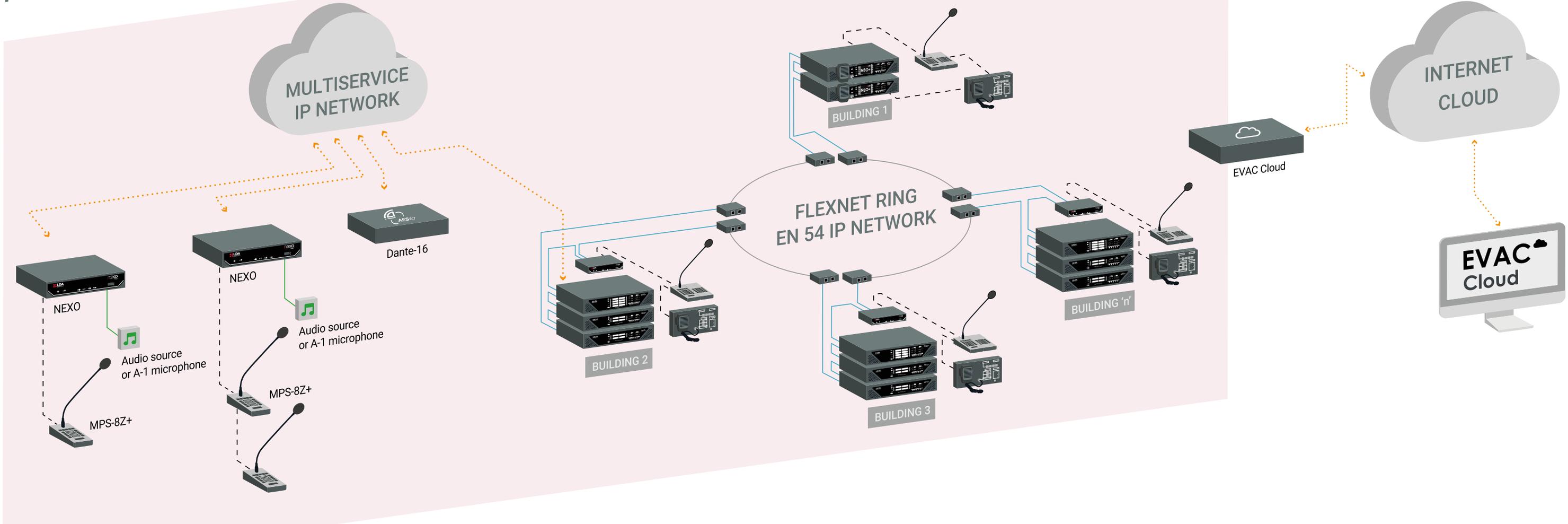
Single-site system (1 controller + backup)

ACSINet Domain ➔ Group of NEXO and ACSI devices that are natively integrated into a NEO+ system.

IP protocol	IP protocol	LDA ACSI® bus	LDA Flexnet® protocol	Balanced analog audio
Standard UTP cabling	Fiber cabling	Standard UTP cabling	Standard UTP cabling	Shielded audio cable

14

15

PUBLIC ADDRESS AND VOICE EVACUATION SYSTEM

CENTRAL OPERATION ROOM

MPS-8Z+   VAP-1   NEXO HUB

REDUNDANT OPERATION ROOM

MPS-8Z+   VAP-1   NEXO HUB

IP LAYER 3 NETWORK

BUILDING 1

EVAC Control

NEXO HUB   MPS-8Z+   VAP1-FES   NEO+ System   EVAC Cloud

BUILDING 2

NEXO HUB   RACK 1

NEXO   Audio source or A-1 microphone   MPS-8Z+

NEXO   Audio source or A-1 microphone   MPS-8Z+   Dante-16

FLEXNET RING EN 54 IP NETWORK

RACK 2   RACK 3   RACK 'n'   EVAC Cloud

INTERNET CLOUD

EVAC Cloud

ACSINet Domain ➜ Group of NEXO and ACSI devices that are natively integrated into a NEO+ system. In this diagram, there is one ACSINet Domain per building.
ACSINet Cluster ➜ Group of NEXO Hub and ACSI equipment forming a multisite structure. This diagram features a total of one ACSINet Cluster.

Legend				
◀·····▶ IP protocol	—— IP protocol	- - - - LDA ACSI® bus	—— LDA Flexnet® Protocol	—— Balanced analog audio
Standard UTP cabling	*Fiber cabling*	*Standard UTP cabling*	*Standard UTP cabling*	*Shielded audio cable*

A CUSTOM-MADE SYSTEM WITH RELIABLE ACCESSORIES

EN 54 certified

AES67 AND ACSI NET CONVERTER NEXO

AES67 network audio converter and ACSI v2 bus controller for connecting up to 32 MPS-8Z, MPS-8Z+ or VAP-1 devices.

EN 54 certified

AES67 PROCESSOR CARD NEXO HUB

Card for creating a link proxy in distributed multi-controller systems with NEO+.

EN 54 certified

EXPANSION KEYBOARD MPS-8K+

EN 54 certified expansion unit for MPS-8Z paging station with 8 programmable buttons in ACSI v2 protocol.

EN 54 certified

MULTIZONE MICROPHONE MPS-8Z+

Paging station with ACSI v2 protocol to connect up to 32 devices in one bus.

EN 54 certified

NETWORK SWITCH EN 54
EQ-242910

Allows the configuration of IP communication networks between LDA EN 54-16 devices. Includes 4 Fast Ethernet ports + 2 SFP ports.

EN 54 certified

MEDIA CONVERTER
EQ-201035

Media converter designed to extend Ethernet networks in industrial environments.

EN 54 certified

SFP MODULES
EQ-242911 / EQ-242912

Fiber modules for EN 54 network switch model EQ-242910. For distances up to 2 km and up to 20 km.

EN 54 certified

SFP MODULE
EQ-201036

Module for EN 54 media converter model EQ-201035.

EN 54 certified

FIRE BRIGADE CONTROL PANEL VAP1-FES

EN 54 voice alarm panel with advanced functionalities and status monitoring by zones. General control unit with emergency microphone. Includes red wall cabinet model EQ-242057.

EN 54 certified

FIRE CONTROL PANEL AND KEYBOARD VAP1-FES 7Z

EN 54 voice alarm panel with advanced functionalities and status monitoring by zones. General control unit with emergency microphone and 7-zone expansion keyboard. Includes red wall cabinet model EQ-242057.

EN 54 certified

7 ZONES EXPANSION VAP1-FES ERW 7Z

Panel with 7-zone expansion keyboard for use with VAP1-FES and VAP1-FES 7Z. With advanced functionalities and status monitoring by zones. Includes red wall cabinet model EQ-242057.

EN 54 certified

14 ZONES EXPANSION VAP1-FES ERW 14Z

Panel with 14-zone expansion keyboard for use with VAP1-FES and VAP1-FES 7Z. With advanced functionalities and status monitoring by zones. Includes red wall cabinet model EQ-242057.

EN 54 certified

BATTERY CHARGER
EQ-241976

EN 54-4 charger with 2 outputs (480 W each) and 960 W maximum power.

EN 54 certified

BATTERY CHARGER
EQ-241977

EN 54-4 charger with 6 outputs (960 W each) and 3600 W maximum power.

BATTERY EQ-242064

65 Ah and 12 V battery for EQ-241976 charger.

BATTERY EQ-242065

150 Ah and 12 V battery for EQ-241977 charger.

WALL-MOUNTED CABINET
RACK-4ALT

19" and 4U wall-mounted rack cabinet with glass front door and lock for VAP-1 voice alarm panel and VAP-8K expansion keyboard.

RED WALL-MOUNTED
CABINET EQ-242057

Housing set to accommodate a VAP-1 fire panel and a VAP 8K keypad extension. Finished in RAL 3000 (fire red).

POWER ADAPTER
VCC-64PSK

RJ-45 communication and power supply adapter to connect up to 10 VCC-64 wall controllers.

WALL CONTROLLER
VCC-64

Controller for channels (up to 99 programmable) and volume (0-9 levels) with RS-485 bus connection.

EN 54 certified

DANTE®-AES67 CONVERTER DANTE-16

Dante®-AES67 digital audio converter, includes LDA eCore device to convert up to 16 channels of digital audio.

EN 54 certified

VOICE ALARM PANEL VAP-1

EN 54 certified emergency panel with event button and access to evacuation functions.

EN 54 certified

MULTIZONE MICROPHONE MPS-8Z

Paging station with 8 zone buttons, 1 for events and 1 for memory.

EN 54 certified

EXPANSION KEYBOARD MPS-8K

EN 54 certified expansion unit for MPS-8Z paging station with 8 programmable buttons.

EN 54 certified

EXPANSION KEYBOARD VAP-8K

EN 54 expansion unit for VAP-1 with 8 programmable zone buttons.

BLANK BLOCK VAP-1EC

Blank block for VAP-1 alarm panels. Can be used in 4U and 6U racks.

EN 54 certified

END OF LINE DEVICE TFL-2

EN 54 certified EOL device to test the integrity of 70/100 V speaker lines with impedance measurements.

MICROPHONE A-1

One zone desktop microphone with lighting indicators and micro-controller.

LEADING TECHNOLOGY MADE IN SPAIN

A clear emergency announcement, made in a timely and controlled manner, can make all the difference in a crisis situation. That's why at LDA Audio Tech, we take **product development** seriously to create the most advanced public address and voice evacuation systems.

LDA Audio Tech is one of the leading global providers of voice alarm systems and active protection in buildings. **We design, develop, and manufacture** audio systems that easily integrate into various facilities while ensuring maximum **safety and quality** certified to the highest international standards.

Our team is made up of qualified professionals who understand the needs of integrators, installers, engineering firms, and large companies.

Through R&D and ongoing training, and by staying attuned to the latest technological innovations, LDA offers **tailored solutions for any type of installation**.

NEO+

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