

NEW!



# NETIO – supervised power amplifier for network applications



Ambient System Sp. z o.o. after the implementation of certified voice evacuation systems – MULTIVES and miniVES introduces another new product for the distributed Public Address applications – **Network Power Amplifier NETIO**.

This article presents the basic features of the system as well as examples of its applications, along with the advantages and functional description resulting from the use of Netio devices.

## DEVICE DESCRIPTION

NETIO (Network Power Amplifier) is designed for distributed network architectures and applications that require a high level of operational reliability. NETIO is a compact high-performance power amplifier for the 100 V line, which offers the functionality of a digital audio network. The device has been designed for both small autonomous applications

as well as distributed network PA systems. The system provides the ability to connect up to 254 devices operating within one network and transmit up to 45 global audio signals with high resolution (48 kHz, 32-bit). At the same time, Netio is a great solution for small buildings that require sound systems (stores, hotels) as well as a complex of distributed objects (industrial plants). NETIO can receive audio signals from other NETIO devices via a standard TCP/IP network or locally via external sources connected to analog audio inputs. NETIO also enables the connection of network and/or analog microphones to transmit verbal messages locally or globally. In addition, the built-in memory allows you to store pre-prepared and uploaded automatic messages. After connecting

the background acoustic microphone, NETIO can adjust the output level of the amplifier depending on the conditions in the sounding area. NETIO is a two-channel energy-efficient class D network amplifier with a rated power of 2x 320 W having a built-in DSP processor offering a range of advanced audio processing functions such as feedback eliminator, audio limiter, defining delays on lines and parametric equalizers on both audio inputs and outputs. The amplifier has been designed in Plug & Play technology and is ready to work after placing on the desk and connecting the cabling to the connectors located on the back of the device. The factory configuration can also be edited and freely modified using intuitive software.



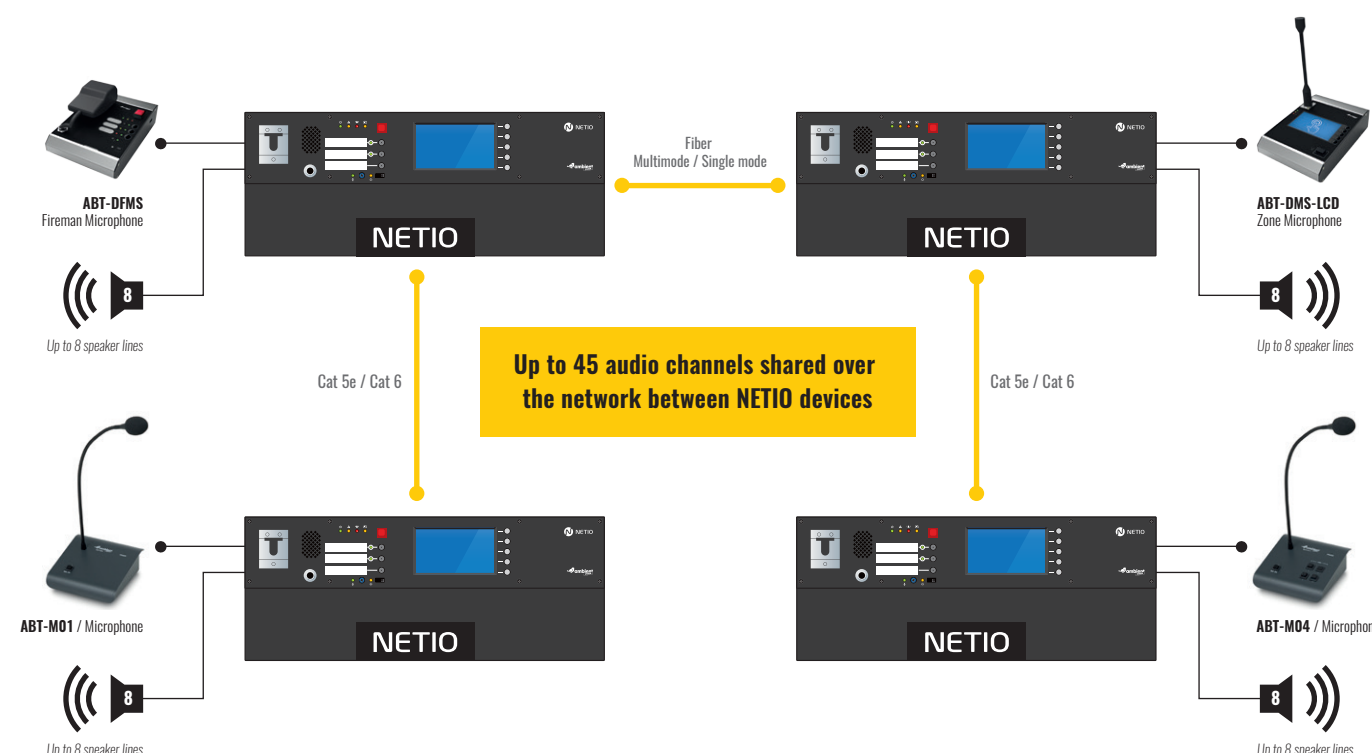
For the intuitive and easy operation on the front of the device, a colored touch screen has been located, giving direct access to the management and monitoring functions of the system:

- » information about the status of zones: fault, blocked or playing including type of audio source;
- » fault register in details;
- » speaker line impedance preview local and global;
- » global audio signal management over the network;
- » simple matrix activation by selecting the zones / groups and audio input / messages.

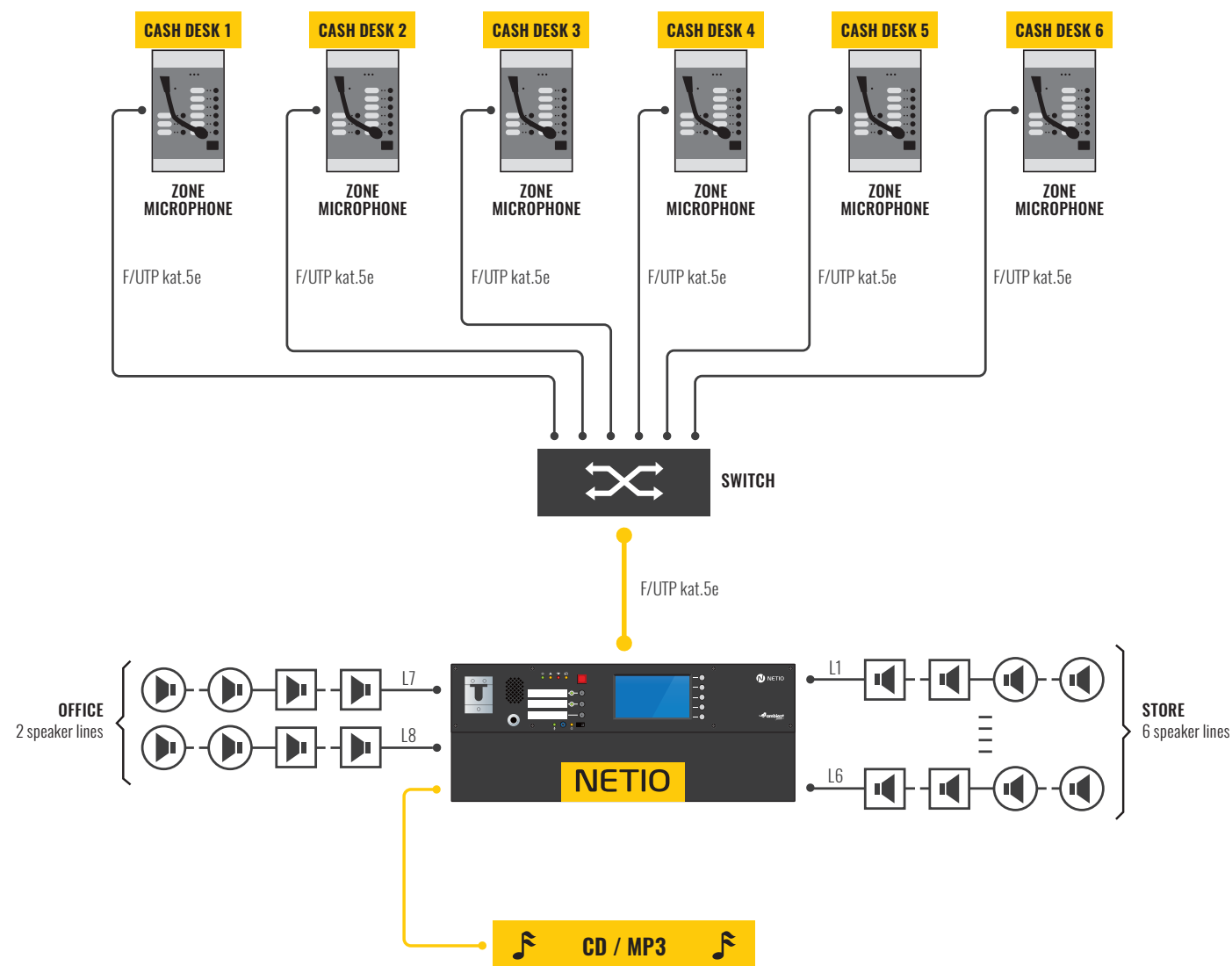
## MAIN FEATURES OF NETIO

- » Network power amplifier with digital signal processing.
- » Up to 254 devices can be connected on the network sharing up to 45 global high definition audio signals (48 kHz, 32 bit).
- » Interkom functionality between NETIO and IP microphones.
- » Designed for high energy efficiency.
- » User friendly and intuitive programming software.
- » Redundant power source with battery charger.
- » Fully integrated with management software.

## EXAMPLE OF A DISTRIBUTED APPLICATION



## SAMPLE APPLICATION / STORE



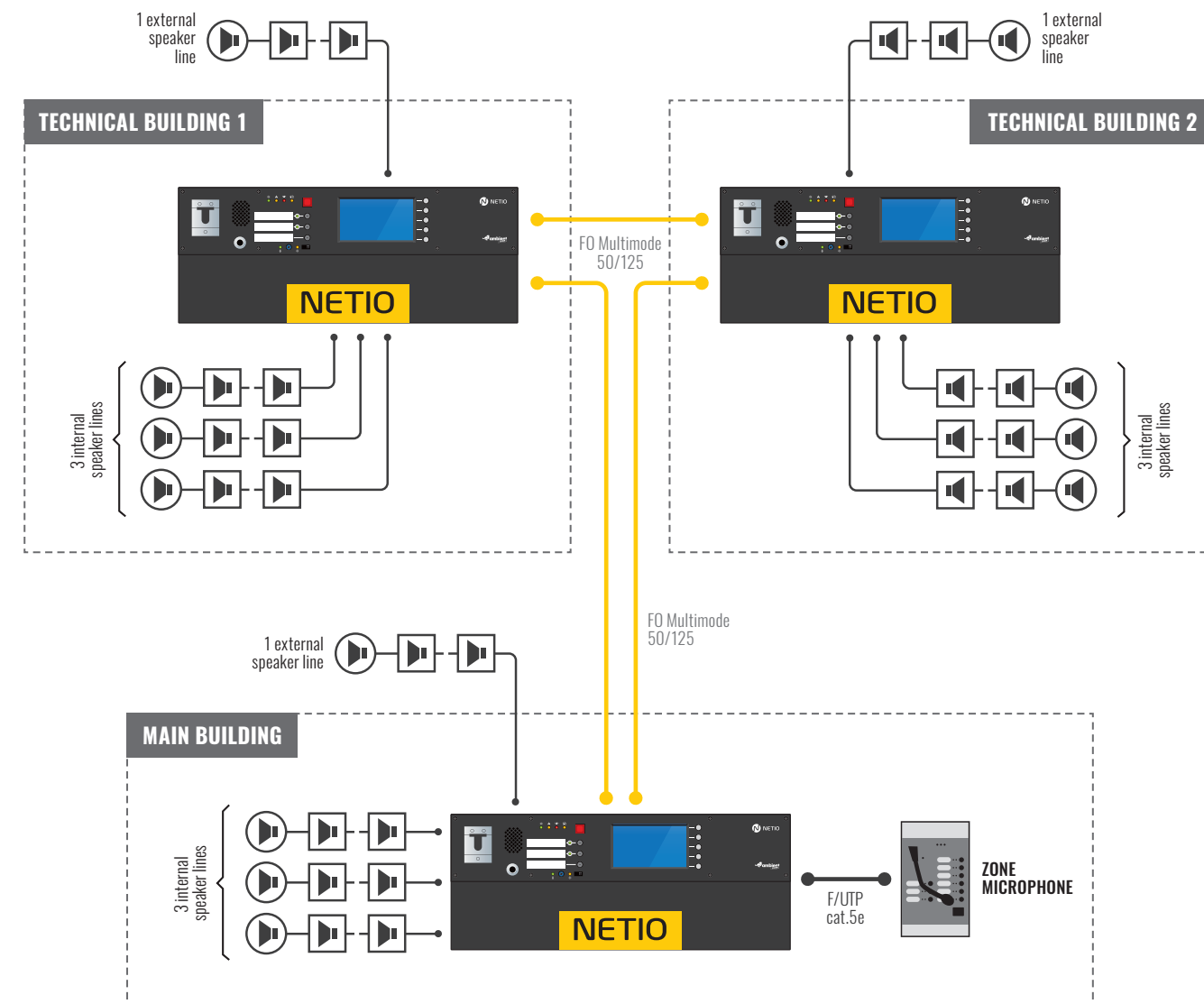
### STORE / sound system

- » **Zone microphone on the cash desk:**
- › sending verbal messages,
  - › freely programmable buttons – activation of a given button may result in sending a predefined message in the system's central office, for example: calling the store manager, transferring free cash register information to clients, etc..

- » **Zone microphone in the office part:**
- › is a control panel for the sound system – it enables, among others choosing the zone, switching on and off individual sound sources, or adjusting the sound level.

Built-in audio input allows you to connect external devices – broadcasting music background advertising information in the store area.

## SAMPLE APPLICATION / INDUSTRIAL



### INDUSTRIAL BUILDING / network broadcasting system

- » NETIO enables connection of many industrial facilities into one system. Network cabling between devices made in the form of fiber optic loop guarantees that a single cabling fault, occurring in any place, has no influence on the correct operation of the system;

- » A microphone located in the main building enables sending verbal and/or automatic messages to selected loudspeaker zones in all objects.