

digitex

For a safer world

digitexSHELTER

Integrated public warning
and alert system

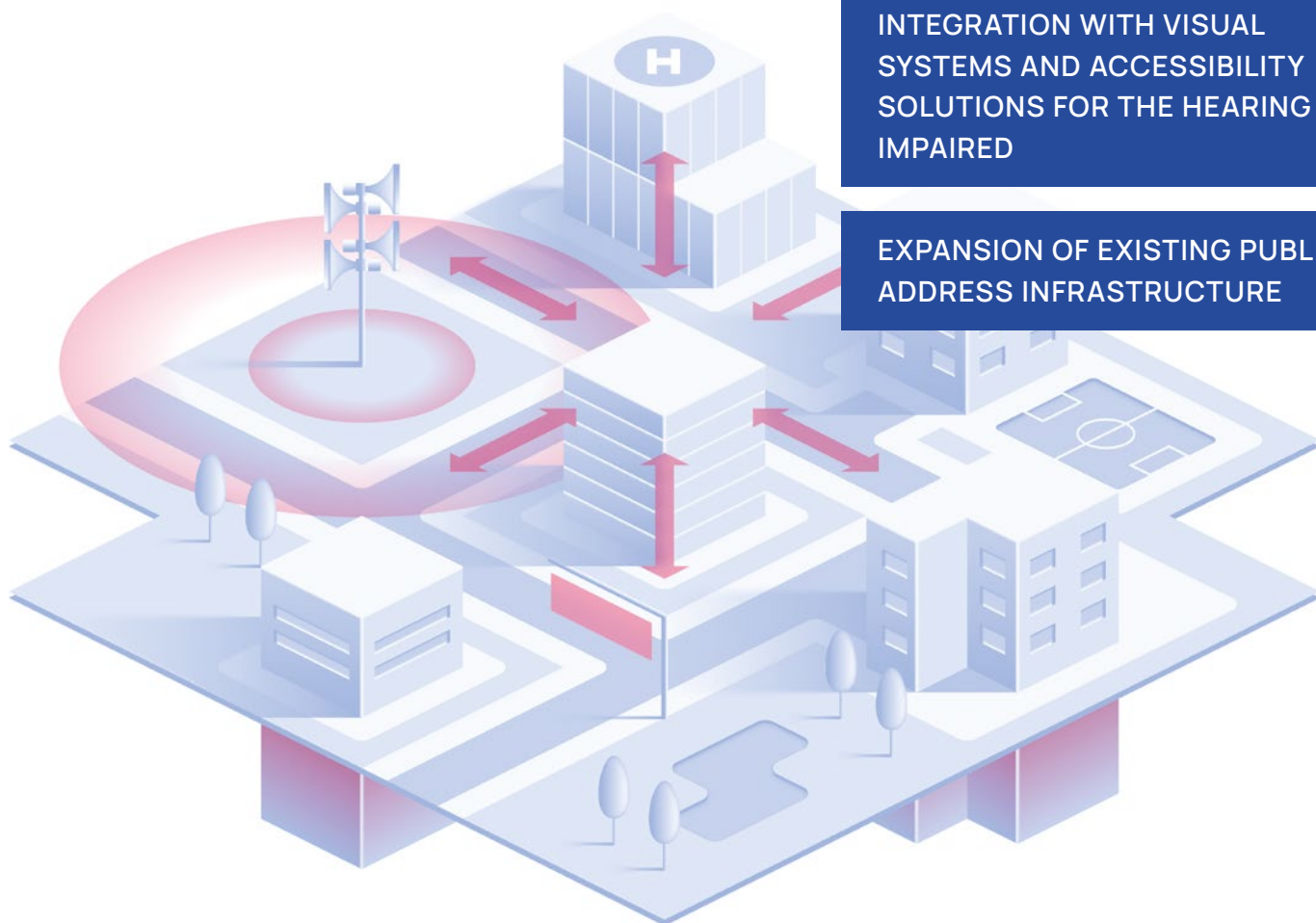
REMOTE AND LOCAL SYSTEM
MANAGEMENT

VOICE COMMUNICATION WITH
CRISIS MANAGEMENT CENTERS
AND FIRE SERVICES

CENTRAL, REGIONAL
AND LOCAL WARNING

INTEGRATION WITH VISUAL
SYSTEMS AND ACCESSIBILITY
SOLUTIONS FOR THE HEARING
IMPAIRED

EXPANSION OF EXISTING PUBLIC
ADDRESS INFRASTRUCTURE



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Integrated public warning and alert system

System purpose

digitexSHELTER is an integrated solution combining Digitex warning systems with Platan technology, designed for alerting, warning, and two-way voice communication in strategically important facilities.

Its scalable architecture (central, regional, local) enables both remote and local control and supervision of safety processes - from threat detection to evacuation management.

Designed for:

- **Protective structures** (shelters and safe rooms)
- **Temporary shelter locations** (e.g., underground building areas)
- **Public infrastructure** (e.g., hospitals, government buildings, energy networks)
- **Critical infrastructure** (e.g., dams, industrial plants, power stations)

Local and remote management

The system can be managed locally from the shelter supervision level and remotely from Crisis Management Centers and/or Fire Services.

Monitoring is performed via digitexWAVE software, which enables real-time device status overview, alarm activation, and voice message broadcasting.

The central component is the digitexSHELTER controller, integrating speakers, sirens, displays, and sensors, and ensuring communication via redundant IP and radio links. This guarantees full functionality even in the event of telecommunications infrastructure failure.

Backup power supply

The system is powered from the facility's main supply and automatically switches to backup power in case of failure.

The integrated battery backup ensures full system functionality (communication, alerts, control) for at least 24 hours.

Integration with visual systems and hearing assistance solution

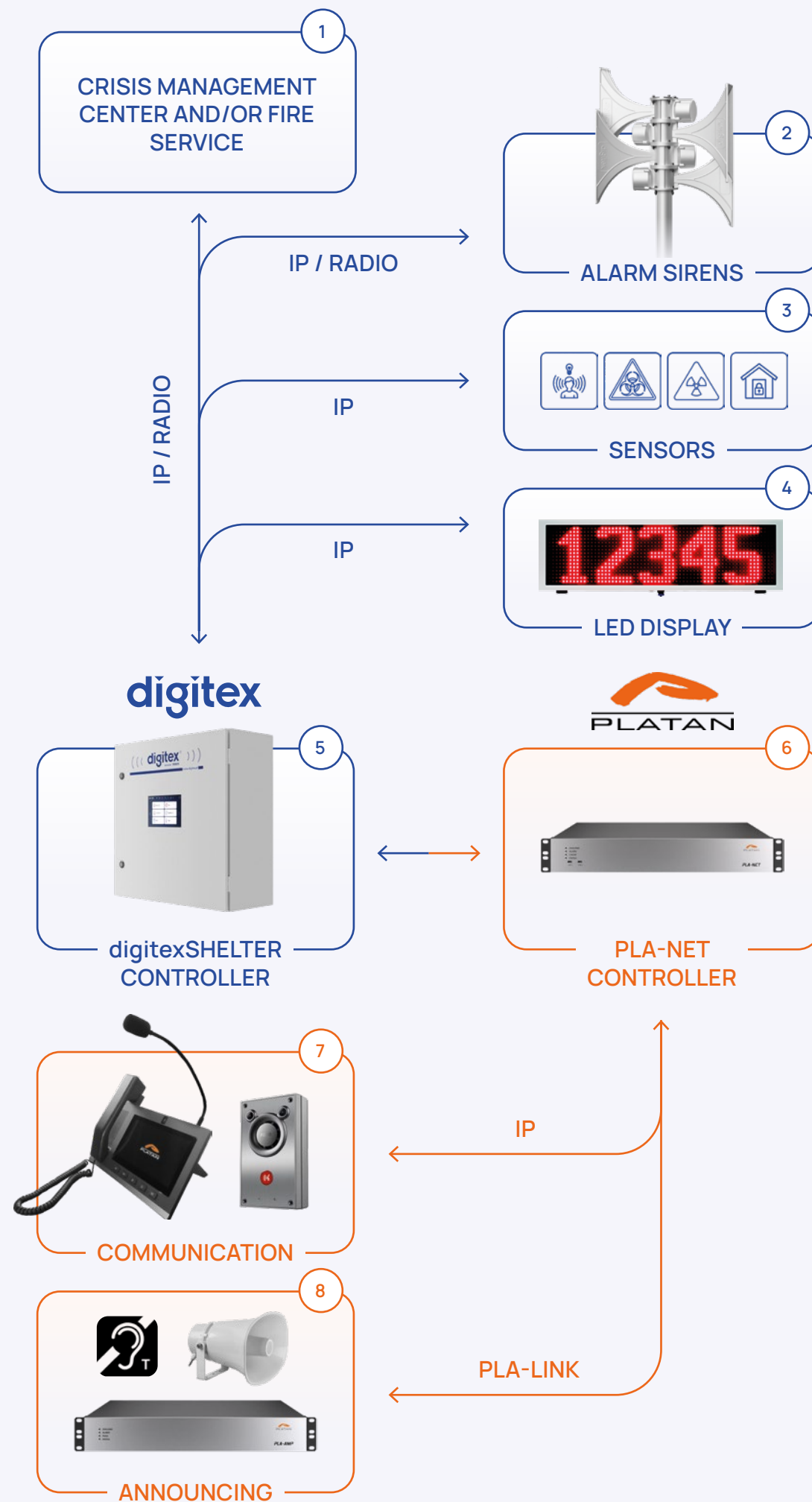
The system enables integration with LED displays and other visual systems, allowing for both automatic and manual presentation of warning messages and facility status information.

The solution also supports individuals with hearing impairments through the use of inductive loop systems, which transmit audio signals directly to hearing aids.

Sensor integration

The system integrates sensors monitoring both the facility and its surroundings. Door and hatch sensors detect unauthorized access or loss of airtightness. Air quality sensors monitor oxygen and CO₂ levels and detect chemical and radiological contamination.

If thresholds are exceeded, the system can automatically trigger alarm procedures such as siren activation, message broadcasting, or closing safety barriers.



1. digitexWAVE SOFTWARE

Dispatch software for system monitoring, remote alarm activation, and voice broadcasting from Crisis Management Centers and/or Fire Services. Enables two-way communication with the digitexSHELTER controller and full system integration.

2. ALARM SIRENS

Devices emitting alarm signals and high-intelligibility voice messages. Power range: 300 W to 3000 W.

3. SENSORS

Devices monitoring environmental conditions, detecting threats, and triggering automatic alarm procedures.

4. LED DISPLAY

Visual warning system presenting alarm messages and facility status information.

5. digitexSHELTER CONTROLLER

Central control unit integrating speakers, sirens, sensors, and displays, and ensuring communication with emergency services.

6. PLA-NET CONTROLLER

Central unit of the Platan intercom and PA system, managing internal audio networks and voice message distribution.

7. INTERCOM MODULES AND MICROPHONE PANELS

Devices enabling two-way voice communication between facility zones, shelter supervision, and crisis management centers. Supports call forwarding and group announcements with multiple operators.

8. AMPLIFIERS AND SPEAKERS

Public address system based on 100 V and IP speakers, ensuring clear alarm and evacuation messages throughout the facility. Integration with inductive loop amplifiers supports hearing-impaired users.

Technical specifications

Outdoor warning system

Main power supply	230 V $\pm$ 10% (207–253 V, 50 Hz)
Backup power supply	2 $\times$ 12 V (minimum 55 Ah) AGM
Output power	300 W to 3000 W
Control / Communication	IP: Internet, LAN, VPN Encryption: AES-128, RSA Built-in GSM modem: SMS, Flash SMS, voice calls LoRaWAN, GSM, IP, TETRA, DMR, NXDN

Intercom and public address system

Output power	100 W to 1000 W
Control	Ethernet, RS485 (Modbus)
Communication channels	digitexWAVE, VoIP and analog telephony, GSM gateway, FM radio

digitexWAVE dispatch software

Organizational levels	central, regional, local
Device control	automation systems, sirens, PA systems, lighting, LCD displays, garage doors, and more
Integration	existing client systems, external systems, sensors
Language versions	8 available (more on request)
Training	on-site and remote, in 4 languages (PL, EN, DE, RU)



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Digitex is a manufacturer of integrated public alerting systems. The company's product range includes alarm sirens, siren control units, radio access points and the digitexWAVE software for controlling digital public alerting systems.

The systems perform warning and notification functions in public administration, crisis management, civil defense and fire brigade units in over 20 countries. They also support the military and selected industrial plants from high-risk industries.

The company operates its own research and development department (R&D), which allows for full control over the hardware and software development process and integration with third-party devices. In this way, thanks to the technological advantage consistently developed over 30 years, the company has established its position as a leader in Poland and Central and Eastern Europe.



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