Compact
LITE

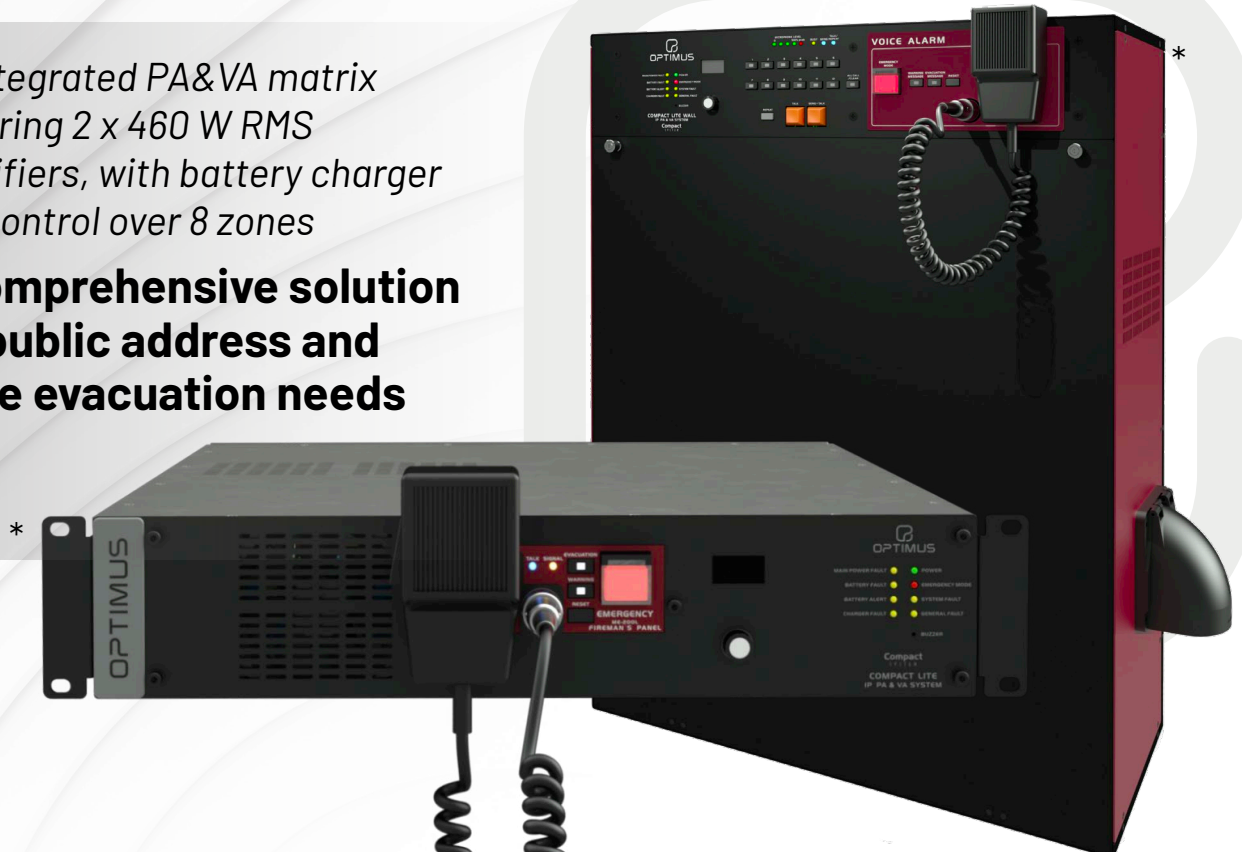# Compact
SYSTEM

PUBLIC ADDRESS
AND VOICE ALARM

An integrated PA&VA matrix featuring 2 x 460 W RMS amplifiers, with battery charger and control over 8 zones

A comprehensive solution for public address and voice evacuation needs

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> COMPACT LITE is a highly advanced public address and voice evacuation system that seamlessly integrates cutting-edge technology with versatility. It features a built-in battery charger for uninterrupted operation, allowing users to deliver live voice messages and play pre-recorded announcements and music.

>> Each COMPACT LITE unit can control up to 8 loudspeaker zones, with a PA&VA matrix offering IP connectivity and redundant options across 4 IP input channels and 4 analogue audio inputs. The system's core includes 12 configurable input contacts, 6 output contacts, and two powerful class D amplifiers delivering 460W RMS for music/backup and announcements.

>>> Supporting 8 subzones with relay-controlled activation, COMPACT LITE provides precise control over external volume attenuators and offers extensive surveillance capabilities, monitoring loudspeaker lines, amplifiers, input contacts, and pre-recorded messages to meet EN54 requirements. The system has 10 MB of internal storage, expandable via µSD card, for pre-recorded messages.

>>>> With three battery configurations (internal, external, or none), CAN bus communication for peripherals, and external system integration via VoIP and direct protocols like JSON or API/DLL, COMPACT LITE ensures flexibility. Control and monitoring are streamlined through software, TELNET, SSH functions, SNMP, and a dedicated mobile APP.

Whether in a standard 2-rack 19" unit format or wall-mounted, COMPACT LITE sets a new standard in PA&VA systems, providing reliability, flexibility, and cutting-edge technology for various applications.

* COMPACT LITE and COMPACT LITE WALL images are subject to change. Front microphone panels sold separately.

OPTIMUS
SOUND INNOVATION

Security   Paging   Information   Communication   Music

Compact
LITE

COMPACT LITE
Audio matrix 2 x 460 W RMS 8 zones. Rack

Public Address and Voice Evacuation System for controlling up to 8 zones of speakers, with control over external attenuators, featuring a matrix of 4 analog audio inputs, 12 configurable input contacts, 6 output contacts, and two powerful Class D amplifiers providing 460 W RMS for music/backup and announcements. The system offers extensive monitoring capabilities for speaker lines, amplifiers, input contacts, and pre-recorded messages to meet EN54 requirements.

It has 10 MB of internal storage, expandable via µSD card, battery charger/manager for both internal LFP batteries in the device and external lead-acid batteries, redundant Ethernet connection, 4 IP input channels, and CAN bus communication for microphone consoles and noise sensors. It can operate autonomously or as an additional unit within a COMPACT system. Furthermore, it seamlessly integrates with external systems via VoIP and direct protocols such as JSON or API/DLL. Control and monitoring are optimized through software, TELNET, SSH functions, SNMP, and a dedicated mobile application.

Power supply	100 ~ 240 V AC
Consumption	Stand-by: 20W; Full load: 550 W.
Frequency response	100 ~ 18,000Hz
Signal-to-noise ratio	> 75 dB
Ethernet communication	2 Ethernet connections (RJ45) A and B for installations with redundancy. IP Layer 3 & Layer 4 Network.
CAN bus	Communication speed 500 kbit/s or 33.3 kbit/s, configurable by software.
VoIP	RFC3261 SIP protocol. G711 (PCMA and PCMU), G722 and L16 encoding.
Amplifiers	2 x 460 W RMS*, class D, for music/backup and announcements
Speaker line outputs	8 x 100 V. Maximum total power 460 W.
Audio inputs	4 software-configurable sensitivity inputs (-20 dB / 0 dB).
Input contacts	12 input contacts. NC/NO configurable. Supervised. Activation pulse detection time configurable through software
Output contacts	6 output contacts. NC/NO configurable. 1 FAIL relay. Max. DC charging current: 150 mA. Max.m DC or peak AC charging voltage: 350 V.
Battery charger	Integrated, 1.5 amps
Finishes	Iron and aluminium, painted black RAL9005.
Dimensions (mm)	482.6 (width) x 88.6 (height) x 430 (depth)
19" rack units	2
Weight (without battery)	10 kg

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The 460 W are measured by emitting a 1KHz tone for more than 1 hour, constantly and without interruptions.

The RMS value is the only one that allows for accurate determination of how many speakers can be connected to an amplifier operating at maximum power and continuously. This calculation is not possible with other types of power ratings (burst, EN 54, musical, program, PMPO, peak...), some of which are much higher and refer to maximum values for very short periods of time before speaker failure or amplifier limitation.
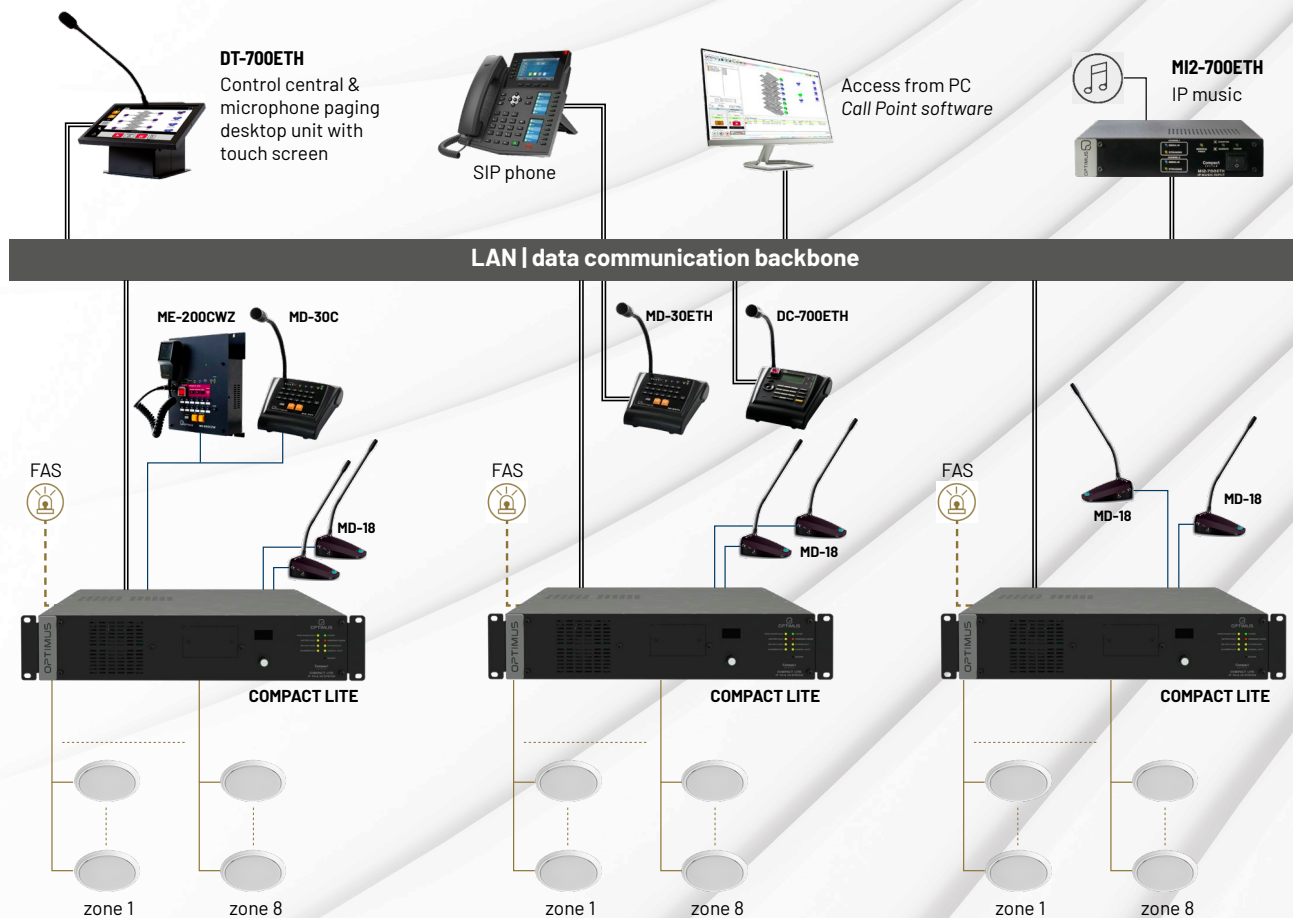
OPTIMUS
SOUND INNOVATION

Compact
LITE WALL

COMPACT LITE WALL
Audio matrix 2 x 460 W RMS 8 zones. Wall

The COMPACT LITE can be rack-mounted in a 19" rack or wall-mounted in a cabinet with sufficient space to accommodate external batteries if opting for lead-acid ones.

Optionally, on the exterior of the cabinet, an emergency local microphone console with 12 keys for zones/pre-recorded messages can be installed, providing everything needed to control the public address and voice alarm system from a single unit.

DT-700ETH
Control central & microphone paging desktop unit with touch screen

SIP phone

Access from PC
Call Point software

MI2-700ETH
IP music

LAN | data communication backbone

ME-200CWZ   MD-30C

MD-30ETH   DC-700ETH

FAS

MD-18

FAS

MD-18

FAS

MD-18   MD-18

COMPACT LITE

COMPACT LITE

COMPACT LITE

zone 1   zone 8

zone 1   zone 8

zone 1   zone 8

Security   Paging   Information   Communication   Music
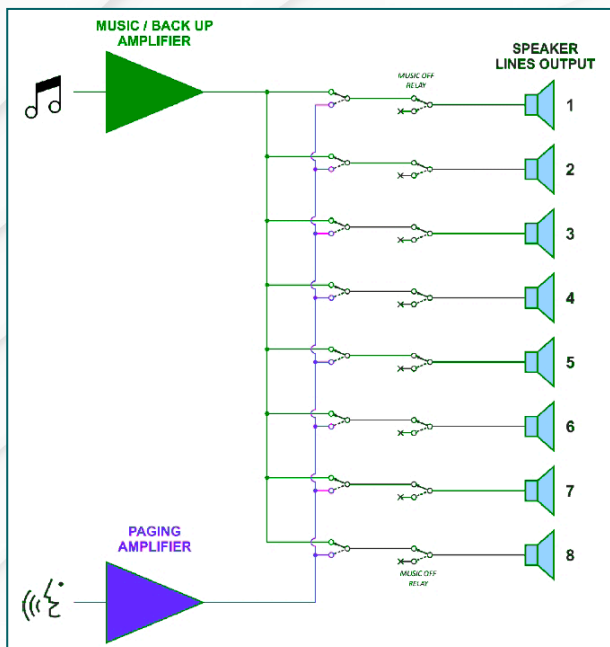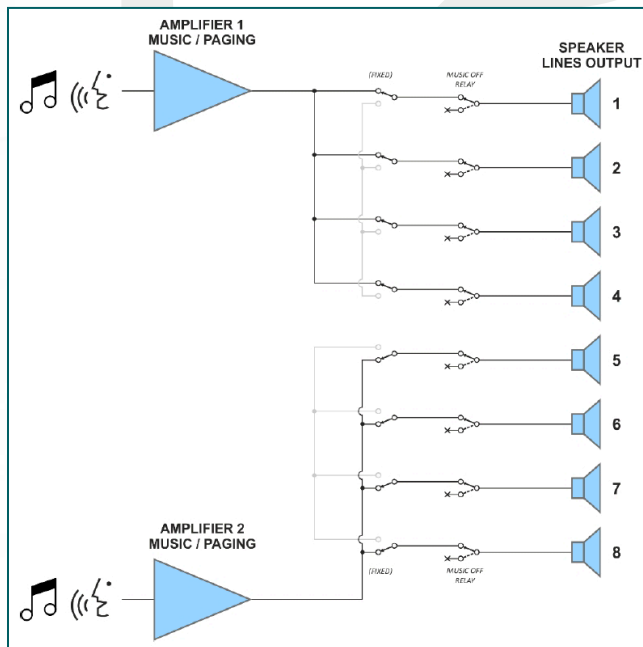
Compact SERIES

Compact SYSTEM

Default configuration

- 1 paging amplifier & 1 pusic and backup amplifier.
- All zones with same music volume & paging volume.
- Option to isolate zones from the BGM.

Dual Model configuration

- The hardware is capable of becoming a 2 x 460 W RMS IP power amplifier.
- 2 x amplifiers with its own volumen for music and paging

APP-OPT1
Smartphone / tablet application

Application (Android and iOS) to manage COMPACT LITE Public Address and Voice Alarm systems. It connects directly to equipment without intermediate servers. Suitable to control the music, announcements and system status in hotels, shopping centers, transport stations...

Security   Paging   Information   Communication   Music