

Now it is time to think smart and combine battery charger capabilities with the integrated power amplifier. The DCA-2.500 amplifier not only drives the system up to an impressive 1000 Watt, but it also charges and surveys a scalable battery pack for a large group of amplifiers that are sharing their battery charging output. This not only reduces hardware and rack-space but most importantly, it decreases installation and operational costs whilst increasing reliability. Simple to configure with its easy to use GUI tool guiding software you create a systems solution with multiple Voice-Alarm zones, paging-zones and music areas in minutes. High quality DSP-processing guarantees state of the art audio performance throughout the building as well as highly intelligible pre-recorded and live message broadcast for both commercial and live-safety applications.

IMPACT comes with a wide range of emergency wall-box and desktop paging consoles. The Global-Network connects up to 254 nodes, consisting of CONTROLLERS, paging consoles, 4E-SW6 zone expanders, 4E-GPIO modules and COMPACT500s offering a staggering size of up to 1400 speaker-lines!



• Quick download and upload of the system configuration;

complete copy of the system configuration file);

• Flashcard exchange protocol for quick system update

/ programming in case of computer access disability or

• Update of firmware and configuration over the Network to

all-devices (Each CONTROLLER or COMPACT500 holds a

4EVAC MANAGER

service easier than ever.

COMPACT500 system provides:

emergency purpose.



4E-FMT



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CONTROLLER / Audio matrix



DCA 2.500 / D-Class Charger Amplifier

LINK, regulates the battery-cluster charging procedure and status control. This way a single, larger battery pack can be shared with multiple amplifiers.







CERTIFICATION: EN54-16:2008

4E-SW6 / Remote Controlled Zone Expander module

The 4E-SW6 Remote Controlled Zone A third internal channel is used by Expander module is a simple and costeffective way to distribute various loads over a multiple of 6-speaker lines / zones.

The IMPACT concept is simple yet powerful:

When combined with 4EVAC's DCA-2.500, or other third-party single highpower two-channel amplifier, the **4E-SW6** switching module generates simultaneous EVAC and ALERT announcements or paging messages and background music (BGM) into six switched speaker lines. By adding more 4E-SW6 switching modules, it is possible to produce any multiple of six speaker lines, which can be grouped in virtual paging zones.

More zones, Fewer amplifiers!

Powered by a single DCA-2.500 two channel amplifier, the 4E-SW6 switching module provides dual-simultaneous, uninterrupted signals for any combination of paging, BMG, EVAC and ALERT for six manageable speaker lines.

the surveillance tone generator to continuously check the integrity of the cable and detects any faults. The third internal channel can also be addressed if the speaker lines need to be silenced.

The transmission-line detection is based on End-Of-Line (EOL) measurement. The 4E-SW6 generates a pilot tone that feeds into a tuned EOL. This way each speaker line of the 4E-SW6 is monitored for line-short and line-open faults.

The **4E-SW6** switching module is easy to install. It comes in a guick-snap DIN- rail housing and is supplied with speaker line connectors that directly accept external field cabling up to $2.5 \text{ mm}^2/12 \text{ AWG}$.

Each speaker line is able to support loads from as small as 1W to as big as 200 W, with a total load of 500W per 4E-SW6. This 'dynamic-load-distribution' makes IMPACT the most flexible and versatile VACIE system in the industry and optimises the use of all modules on the network.

Using two amplifier channels of the DCA 2.500 amplifier, each 4E-SW6 switching module provides simultaneous paging and BGM, limited at 500 W for the whole system. This includes active back-up of Amplifier channel-A against channel-B, and channel-B against channel-A.

Using two amplifier channels of the DCA 2.500 amplifier, the 4E-SW6 switching module provides simultaneously paging in SW6 #1 and background music in SW6#2 with 500 W per **4E-SW6** switching unit. For back-up purposes, an extra amplifier channel can be used as 'shared back-up'.

DCA 2.500 amplifier PAGING/EVAC and BGM/AI FRT for each SW6. MIXING signals within SW6. Zones PAGING & BGM Zónes PAGING & BGM DCA 2.500 amplifier PAGING/EVAC/BGM in SW1 and PAGING/



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The **CONTROLLER** is the heart of the **IMPACT** system. Housed in a 1U 19-inch rack-mountable frame, it manages all **VACIE operations**. This involves the management and prioritising of audio streams coming from the network.



DCA 2.500 / D-Class Charger Amplifier

Standing apart from any conventional power amplifier, the DCA2.500 features an in-built scalable battery charger with a temperature sensor that is EN54-4 compliant.





4E-SW6 /

Remote Controlled Zone Expander module

The **4E-SW6** Remote Controlled Zone Expander module is a simple and cost-effective way to distribute various speaker loads dynamically over multiple speaker-lines.



IMPACT system basic features complying to EN54-16:

• Power amplifier, 2 x 500 W

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- Back-up amplifier included
- Battery charger for 30 min full-load and 24 hours standby
- 12-loudspeaker lines / zones with EOL using 4E-SW6
- Simultaneous Paging & BGM or EVAC & ALERT into all-zones
- Phased evacuation into all-zones
- Multiple message player
- 32 x GPIO for fire-panel triggering
- Local aux/music entry on amplifier for commercial use into all-zones.



4EVAC









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FOR THE EXPANSION WITH BUILDING 4 YOU WILL ONLY NEED ONE SWG MODULE.



- 1 x CONTROLLER
- 1x DCA2.500
- 2 x 4E-SW6

Component used:

- 1 x 4E-FMTC (optional Wallbox Fireman microphone)
- 12 x EOL module
- 2 x 12 VDC/38 AH batteries



The IMPACT of

configurable modular

design on space saving.



The IMPACT on

decreasing installation

and maintenance costs.

The **IMPACT** of technology on the environment.

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BRACE YOURSELF FOR

Remote controlled Zone-Expander



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