

Introducing Cerberus PACE



The sound of safety

Cerberus PACE - Public Address and Controlled Evacuation

In commercial and public buildings, life safety must always be the highest priority. Effectively moving people out of harm's way in case of an emergency is largely a matter of communication – which is why public address and voice alarm (PA/VA) systems in these buildings aren't just a useful tool for announcements, entertainment or live moderation but an integral part of the safety infrastructure.

With Cerberus PACE, you can cover all your PA/VA needs with a single solution. It was designed with the specific convenience and emergency applications in modern businesses and organizations in mind, from ambient music to public speaking to guided evacuation. Thanks to its state-of-the-art modular and scalable system architecture, Cerberus PACE can be customized for buildings of all types and sizes and offers unique benefits that will reliably ensure the safety and comfort of your employees, visitors and guests 24/7.

Your benefits at a glance



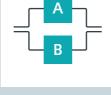
to state-of-the-art

Pro Sound

speaker output for

and comfortable









engineering

times

System configuration

without restarts ensures

business continuity at all



structure





Failsafe loop isolators thanks to omission of error-prone capacitors

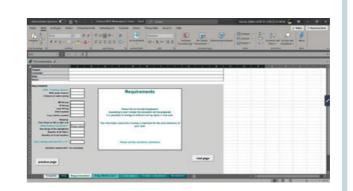
System planning in three steps

Every building has it's own requirements when it comes to a PA/VA system. Ensure that you have all relevant information, so that our planning tool can help you to create a fitting system configuration.

Collect the necessary information

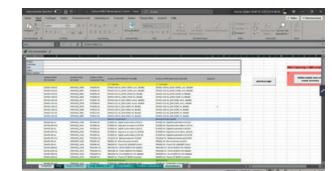
- List of all speaker lines (including wattage)
- Line wiring (A, B or loop)
- Single channel (one audio signal active at a time) or multi channel (2 and more audio signals active at a time)
- Grouping of speaker lines
- List of call stations

Enter all information in the planning tool Our Excel based planning tool verifies the entries and proposes a proper system configuration.



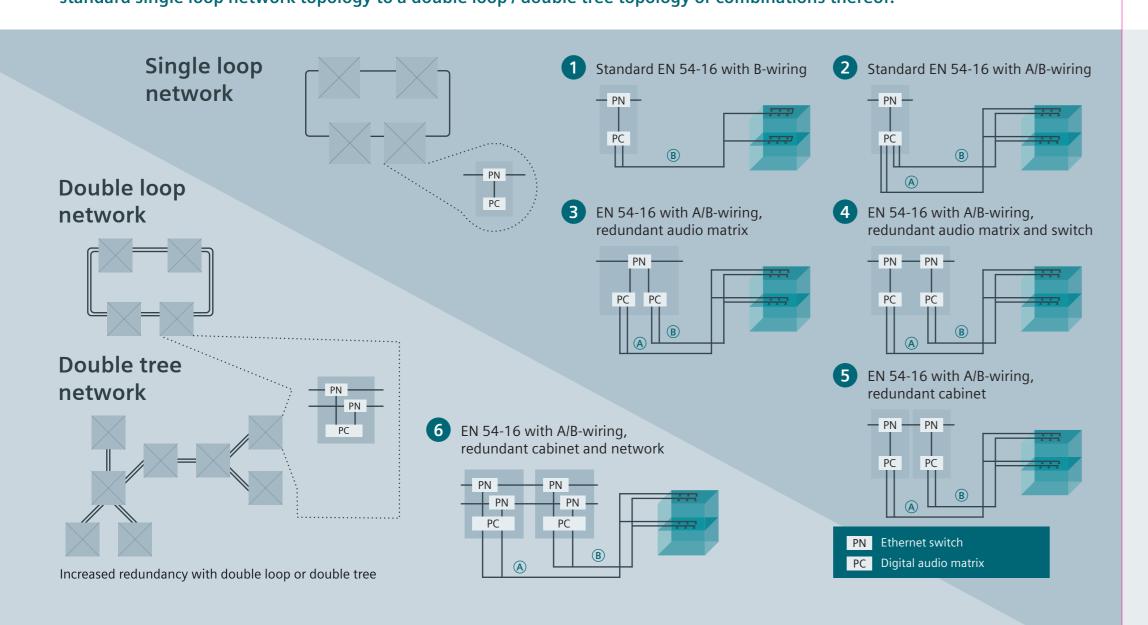
Order your system

By using the summery list out of the planning tool, the correct numbers of components can be ordered.



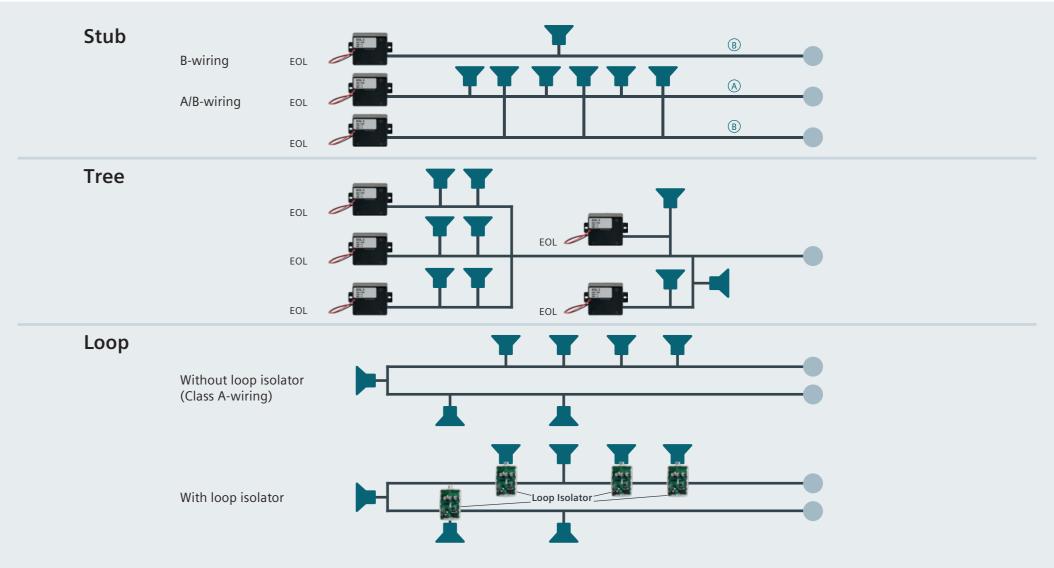
Multi-redundancy

To ensure failure safety for all applications, Cerberus PACE can incorporate all redundancy levels from individual backup components up to a complete double structure. Moreover, the network can be made redundant by expanding the EN 54-16 standard single loop network topology to a double loop / double tree topology or combinations thereof.



Speaker line structures

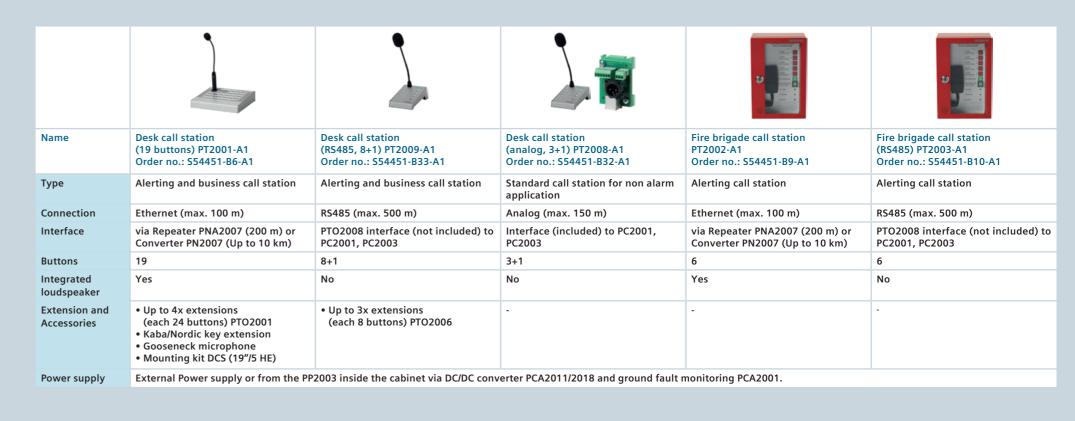
Depending on the customer requirements and desired level of redundancy, several options are available for the speaker lines. From single to double stubs, trees, and loops with or without isolators, all major designs are possible. End-of-line modules ensure the speaker lines are functioning correctly, continuously checking their integrity and notifying should there be a fault.



Cerberus PACE system overview \longleftarrow 550 m or 10 km (depending on FOI adapter) \longrightarrow Ethernet switch Ethernet switch Ethernet switch incl. FOI adapter PN2005 incl. FOI adapter PN2005 PACE-Design incl. FOI adapter PN2005 Desk call station Input/Output System state indicator extensio PT2004 digital PCIO2001 Alarm control panel matrix PC2001 PT2005 Digital audio matrix FDCIO222 PV2003 Ground fault monitoring PCA2001 Fire brigade call station DC/DC converter PT2002 Desk call station RS485 isolator nterface PTO2008 PNA2009-A1 PCA2011 Digital audio Ground fault PC2003 Desk call monitoring PCA2001 (RS485) Fire protection system e.g. Cerberus PRO amplifier PV2003 amplifier PV2003 amplifier PV2003 Fire brigade Legend PACE-NET RS485 BUS

Call stations and accessories







tons) PTO2001

Max. 4 extensions

per call station

Order no.:

S54451-B7-A1



Kaba PTO2002

S54451-B8-A1

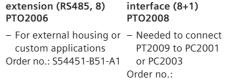
Nordic PTO2003

S54451-B48-A1

Order no.:

Order no.:





S54451-B58-A1

Desk call station



RS485 Bus S54451-B30-A1

Call stat interface Camdenboss (redundant) PTO2009-A1 Offers redundant

S54451-B59-A1

Network call stations Order no.: Order no .: S54451-B40-B1

RJ45 Interface PNA2008-A1 - RJ45 to screw clamp - For PT2001 interface Order no.: S54451-B49-A1

Gooseneck Mounting kit DCS (19_i± / 5 HU) microphone DCS PTO2004 PTO2005

For mounting PT2001 onto cabinet Order no.: S54451-B50-A1

Base components

Digital audio matrix



Shared properties

- Digital signal processing (DSP) Fault relay

24 V DC line

Analog audio line

Switching line

C-NET

- Slot for 2GB microSD flash card One interface (RS232 or RS485)

Control panels



Display: operation, fault, voice

- For external housing or custom

Order no.: \$54451-B14-A1



- Trigger keys: voice alarm, reset, Order no.: S54451-B11-A1 Order no.: \$54451-B12-A1



System operating unit (19") - Display: Operation, fault, voice alarm

- Trigger: Voice alarm, reset,

Order no.: S54451-B56-A1

- 16 fault indicators

Remote control panel - For non-alarm applications only

- (no alerting) – Zone regulation in UP version
- Programmable functions for the respective zone: volume control, preset selection, selection of audio input source Order no.: \$54451-B13-A1

Network and power components





LC connector

Power supply (19", 320 Ah)

Network switches

PP2003 - Output: 400 W @ 24 VDC - 24 V outputs to amplifiers:6x 30 A

- 24 V output other: 2x 10 A - Monitoring: input/output,battery - Max. battery capacity: 24 V/ 320 Ah Order no.: \$54451-B61-A1

Power supply (wall-mounted, 40 Ah) - Output: 125 W @ 24 VDC

 Wall-mounted remote power supply and charger - Monitoring: input/output, battery - Max. battery capacity: 24 V / 40 Ah Order no.: \$54451-B62-A1

PV2007

- Power supply: 230 VAC and 24 VDC – 1x 250 W output power Order no.: \$54451-B34-A1



only) output power

Order no.: \$54451-B15-A1

Power amplifier PV2001 - Power supply: 230 VAC and 24 VDC – 2x 250 W or 1x 500 W (in bridge mode 100 V

D-Link

FOI adapter

Power amplifiers

- Fiber optic interface

multimode adapter needed

to connect to PN2001 LC

Order no.: S54451-B39-A1

Power amplifier PV2002-A1

Ethernet switch (2x 4/2)

- Double switch with 8

Order no.: S54451-B4-A1

2 FO ports

- No spanning tree

Ethernet (2x 4 ports) and

Power supply: 230 VAC and 24 VDC – 2x 500 W output power Order no.: S54451-B16-A1



Media converter (1x 1/1)

- 1 Ethernet port and

1 modular FO port

Order no.: \$54451-B44-A1

- 4x 150 W or 2x 300 W (in bridge mode 100 V only) output power Order no.: S54451-B17-A1

Batteries







Order no.: S54451-B69-A1





Battery (12 V, 100 Ah) PA2008

Order no.: \$54451-B70-A1



Battery (12 V, 150 Ah) PA2009

Order no.: S54451-B71-A1



Battery tray (19") PHA2007 Order no.: \$54451-B42-A1

Cabinets

Available options	ERA		Rittal
	60x60 cm	80x80 cm	80x80 cm
Fixed frame small	PH2012 26 HU / 145 cm Order no.: S54451-C20-A1	PH2010 26 HU / 145 cm Order no.: S54451-C50-A1	PH2006 24 HU / 135 cm Order no.: S54451-C40-A1
Fixed frame large	PH2011 43 HU / 220 cm Order no.: S54451-C21-A1	PH2009 43 HU / 220 cm Order no.: S54451-C52-A1	PH2005 42 HU / 215 cm Order no.: S54451-C42-A1
Swivel frame small		PH2008 23 HU / 145 cm Order no.: S54451-C51-A1	PH2004 22 HU / 135 cm Order no.: S54451-C41-A1
Swivel frame large		PH2007 40 HU / 220 cm Order no.: S54451-C53-A1	PH2003 40 HU / 215 cm Order no.: S54451-C43-A1

Legend: HU = Height Unit; Height includes ventilator roof, socket and side panel



Accessories



Ground fault monitoring (24 V) PCA2001 Monitoring of 24 V lines for — DC/DC converter for ground fault, e.g. in case of remote call stations

Order no.: \$54451-B19-A1

DC/DC converter (24 V/50 W) PCA2011 galvanic isolation of the 24 V line

Order no.: \$54451-B65-A1

DC/DC converter (24 V/100 W) PCA2018 - DC/DC converter for galvanic isolation of the 24 V line

Order no.: \$54451-B75-A1

Audio file storage







Network

Repeater (CAT5) PNA2007

– Extend the length of one Ethernet connection from 100 m to 200 m - 100 MBit/s Ethernet network expsion (more than 100 m) - 4x Ethernet port - 1x FO fiber: multimode, 1310 nm (SC connector)

- 24 V input Order no.: S54451-B52-A1

Automatic volume control



Automatic volume control microphone PCA2007 - Supplied with phantom power via PCA2008

Order no.: \$54451-B25-A1

Automatic volume control

- Connection via audio input 4 - Use with PC2001, PC2003 and PC2005 - Can connect up to 4 PCA2007

End-of-line (EOL) module

Order no.: \$54451-B26-A1



EOL3 (active) PCA2004 - Active end-of-line device for speaker lines – Up to 16 modules per amplifier – Use with PC2001, PC2002 and PC2003 Order no.: \$54451-B22-A1

Backup extension



Backup extension PCA2014 Order no.: \$54451-B72-A1

Input/output



Input/output extension digital (16)

– 16 additional digital inputs and outputs – Connection via RS232 - 8 analog inputs - Connection via RS485 Use with PC2001, PC2002 and PC2003 Order no.: \$54451-B28-A1



- 8 additional relay outputs Use with PC2001, PC2002 and PC2003 - Relay contact: Max. 7 A Order no.: S54451-B27-A1

Loop isolators



Loop isolator (100 V) PCA2005



- Only PC2003 supports loop isolators

Order no.: \$54451-B53-A1



PCA2013 Order no.: S54451-B54-A1