

## GE 100



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## Compact Intercom Server GE 100

Compact and easy to put into operation, the GE 100 Intercom Server also offers a variety of features. Like a modern PC, it is equipped with interfaces to other communication systems such as video systems, door and gate control, telephone systems or also to another GE 100. The simple modular construction of the basic operating system facilitates upgrading for new applications and features. The

latest SMD design results in the system being physically compact and conforming to the highest standards of electronic reliability. The features of the connected intercom terminals depend on the G1-GET-4 subscriber cards, which are available with three different feature levels (B, C and D).

### 1. **GE 100**

Basic central including power supply, with 5 plug-in slots. Slot 1 to 4 for subscriber cards (1 to 16 subscribers) and/or interface cards. Slot A for interface cards only. The motherboard includes an AF input for music/alarm, 2 inputs for floating contacts, 2 relay outputs and a socket for (remote) programming or maintenance.

### 2. **GE 100 (bottom) with GEZ 100 (top)**

Expansion central GEZ 100 including power supply, with 5 plug-in slots. Slot 5 to 8 for subscriber cards (17 to 32 subscribers) and/or interface cards. Slot B for interface cards only.

# Technical Data – Benefits

## TECHNICAL DATA

|                              |  |
|------------------------------|--|
| AC power supply:             | 24 V ±5% / 40 VA / 16 subscribers  |
| DC power supply:             | 24 – 35 V / 40 W / 16 subscribers  |
| Emergency power consumption: | 200 mAh/h (without cards)<br>cards see corresponding data sheet  |
| Power consumption:           | minimum (no conversation): 8 VA,<br>maximum (all call): 40 VA  |
| Frequency range:             | internal 300 – 16,000 Hz   |
| Distortion:                  | less than 0.9%   |
| Operating temperature range: | 0° C to +50° C (32° F to 122° F)   |
| Storage temperature range:   | -30° C to +60° C (-22° F to 140° F)  |
| Relative humidity:           | 20% to 80%   |
| Measurements of the housing: | 310 x 210 x 77.5 mm<br>(12.21 x 8.27 x 3.05 inch)  |
| Weight including package:    | GE 100: 2280 g (5.03 lbs)<br>GEZ 100: 2230 g (4.92 lbs)  |
| Mounting:                    | wall mounting  |
| Relay outputs:               | max. switching capacity: 60 W / 125 VA,<br>max. switching current: 2A<br>max. switching voltage: 60 VDC / 40 VAC |
| Music input:                 | max. 800 mV at 600 Ohm   |
| Inputs IN1, IN2:             | for floating contacts,<br>max. line resistance: 1.5 kOhm   |

## EXPANSION

|                    | Subscribers:                        | Outputs: | Inputs: |
|--------------------|-------------------------------------|----------|---------|
| Basic expansion:   | 0                                   | 2        | 2       |
| Maximum expansion: | see "Plug-in Position of the Cards" |          |         |

## BENEFITS

- Compact plastic housing suitable for wall mounting
- Easy installation and start-up
- Over 150 standard features (a detailed list is available separately)
- Latest intercom technology: microprocessor-controlled, high density design, SMD production, object orientated programming
- Integrated functions for door/gate control, alarms, conferences and central control desks
- Plug&Play CCTV integration
- Flexible expansion by means of different feature packages
- Wide range of applications
- User-friendly programming with PC software (included in extent of supply)
- Remote programming via modem
- Connection of several central units via tieline

## EXTENT OF SUPPLY

- 1 Intercom Server GE 100 in basic expansion, including:
- Power supply
  - CD "Software & Manuals"



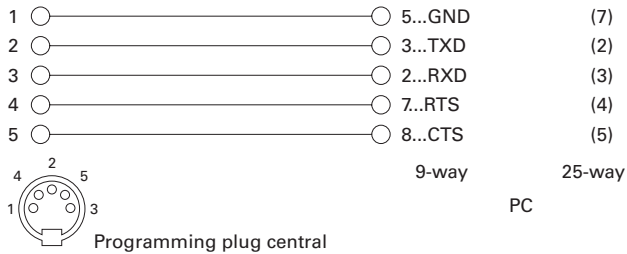
# Installation

## PRECAUTIONS

- With regard to the CE mark, the central is suitable for the following types of application: residential buildings, office and commercial premises, small businesses and industrial premises with public low-voltage mains supply.
- Defective power cables of the transformer may not be repaired or changed. In case of defective power cables, the whole transformer must be changed.
- Mounting and installation of the central GE 100 and of the equipment may be carried out by authorised service personnel only.
- Cards may be inserted or removed only with voltage switched off.
- Before exchanging of cards, ESD precautions must be observed. The “-” terminal of the motherboard G1-GEM (see “Mounting, Cable Run” at page 5) is used as grounding point for Wrist Strap Grounding.

## PROGRAMMING CABLE

For programming of the GE 100 the following cable is required:



The following cables, available as accessories, can be used for programming of the GE 100:  
 “X-KAB100” (with yellow sleeve)  
 “X-KABCOMWIN” (with red sleeve)  
 “X-KABKOFFER” (with white sleeve)

## SPEECH CHANNELS

Available per GE 100 (incl. GEZ 100):

- 2 Duplex controllers
- 12 Analogue audio lines

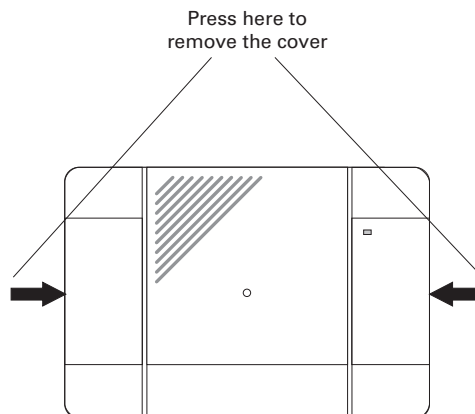
The different types of conversation require a different number of audio lines, the free lines are allocated dynamically (see below).

## REQUIRED LINES

|                           | Duplex controllers | Analogue audio lines | Max. conversations (incl. GEZ) |
|---------------------------|--------------------|----------------------|--------------------------------|
| Simplex                   | -                  | 1                    | 12                             |
| Switched                  | 1                  | 4                    | 2                              |
| Full duplex               | -                  | 2                    | 6                              |
| Feed-in of audio signals* | -                  | 1                    | 12 channels                    |

\* Features like “feed in of music programs”, “conferences” or “radio conferences”. For music 4T1 none of the mentioned lines are required (internal music bus).

## REMOVE THE COVER



## Installation

### PLUG-IN CARDS FOR GE 100

Subscriber cards:

- G1-GET4B, C, D: for four 4-wire intercom stations

Input/output cards:

- G1-8E8A: 8 inputs for floating (volt-free) contacts and 8 floating (volt-free) relay contacts
- G1-16A: 16 outputs (floating (volt-free) relay contacts)
- G1-16E: 16 inputs for floating (volt-free) contacts

Interface cards

- G1-V24: V24 interface card with two RS 232, of which one can be configured as RS 422
- G1-TEL: analogue telephone interface

Connection cards:

- G1-GEL: tieline card for one leased line connection to another central, optional 2-wire or 4-wire

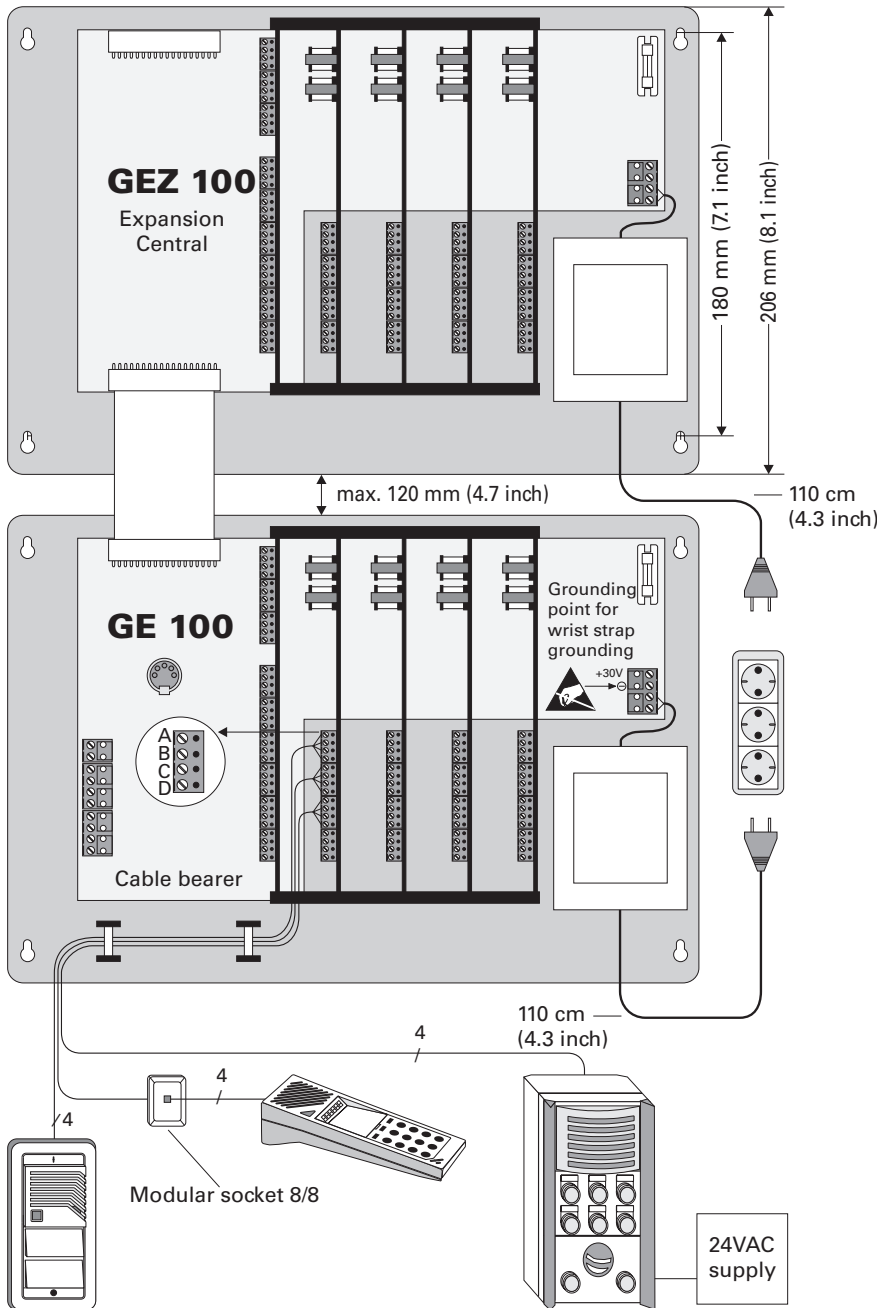
### PLUG-IN POSITION OF THE CARDS

The plug-in cards can be inserted in the following slots:

| Card type      | GE 100 |   |   |   |   | GEZ 100 |   |   |   |   | Maximum number of cards |                  |
|----------------|--------|---|---|---|---|---------|---|---|---|---|-------------------------|------------------|
|                | A      | 1 | 2 | 3 | 4 | B       | 5 | 6 | 7 | 8 | max. per GE 100         | max. per GEZ 100 |
| G1-GET4B, C, D | -      | ✓ | ✓ | ✓ | ✓ | -       | ✓ | ✓ | ✓ | ✓ | 4                       | 4                |
| G1-8E8A        | ✓      | ✓ | ✓ | ✓ | ✓ | ✓       | ✓ | ✓ | ✓ | ✓ | together 2              | together 2       |
| G1-16A         | ✓      | ✓ | ✓ | ✓ | ✓ | ✓       | ✓ | ✓ | ✓ | ✓ |                         |                  |
| G1-16E         | ✓      | ✓ | ✓ | ✓ | ✓ | ✓       | ✓ | ✓ | ✓ | ✓ |                         |                  |
| G1-V24         | ✓      | - | - | - | - | ✓       | - | - | - | - | 1                       | 1                |
| G1-TEL         | ✓      | ✓ | ✓ | ✓ | ✓ | ✓       | ✓ | ✓ | ✓ | ✓ | together 1              |                  |
| G1-GEL         | ✓      | ✓ | ✓ | ✓ | ✓ | ✓       | ✓ | ✓ | ✓ | ✓ | 2                       | 2                |

# Installation

## MOUNTING, CABLE RUN



# Installation

## CONNECTION DIAGRAM

