GE 800

Digital IP-Intercom Server GE 800

Both the hardware and the software concept of the GE 800 Intercom Servers incorporates state-of-the-art technology. All digital and with distributed intelligence the GE 800 Intercom Server administers up to 112 IP-subscribers (or 56 digital or 56 analog). Interaction of all the peripheral devices and cards is controlled by a central processing unit. Each plug-in card or interface has its own front-end processor for controlling its particular features and facilities.

The operating system of the GE 800 is programmed using the latest, object-orientated software. This means that all present and future requirements in the fields of Intercom systems, security systems, facilities management, etc. can be met - fully digitally and on a IP-basis.

GE 800
Basic housing including transformer for power supply (depending on version), with bus pcb for 17 plug-in slots: processor card, connection card, power supply card, slot 1 to 14 available for subscriber cards (up to 112 subscribers) and/or interface cards. The Intercom Server unit includes an AF input for music/alarm, 2 inputs for floating contacts, 2 relay outputs and two Ethernet sockets and one RS 232 socket for (remote) configuration or maintenance.

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Technical Data – Benefits

TECHNICAL DATA

AC power supply:	24 V +/- 5% / 80 VA
DC power supply:	24 – 35 V / 80 W
Emergency power consumption:	200 mAh for G8-GEN, G8-NET, G8-GEP, G8-GEB other cards: see corresponding data sheet
Frequency range:	50 to 15 kHz (–3 db)
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% not condensing
Measurements of the housing:	483 x 133 x 229 mm (19.03 x 5.24 x 9.02 inch)
Weight including package:	approx. 5,800 g (12.8 lbs)
Mounting:	19", 3 HU
Relay outputs:	max. switching capacity: 60 W / 125 VA, max. switching current: 2A max. switching voltage: 60 VDC / 40 VAC
Music input:	max. 800 mV$_{rms}$ at 10 kΩ, 16 kHz
Inputs IN1, IN2:	for floating contacts, max. line resistance: 1.5 kΩ
Thermal dissipation loss: (for calculation of the thermal load)	45.2 W

BENEFITS

- Digital IP-Intercom Server (voice, video, indication and control).
- Integration of other systems via Ethernet and V24 interfaces with own protocol converter.
- The Server housing and connecting technology is specially designed to the requirements of 19" racks.
- More than 150 standard features (a detailed list is available separately)
- Latest intercom technology: microprocessor-controlled, high density design, SMD production, object-orientated programming.
- For all kinds of Intercom stations (IP, 2-wire and 4-wire).
- Digital networking over IP, 2 or 4-wire lines, E1 or ISDN.
- Non-blocking
- Integrated functions for door/gate control, alarms, conferences and central control desks.
- Plug&Play video integration.
- Expandable from 2 to max. 25,000 subscribers without restrictions (up to 30,000 subscribers with restrictions).
- User-friendly configuration with included PC software.

EXPANSION

	Subscriber:	Outputs:	Inputs:
Basic expansion:	0	2	2
Maximum expansion per Server housing:	112	226	226
Maximum expansion (239 housings)	30,000 (incl. WAN)	50,000	50,000

EXTENT OF SUPPLY

1 Intercom Server GE 800 including:

- 19" housing (3 height units) with snap-on lid
- G8-GEB Bus PCB (with 17 slots, of which 14 are empty)
- G8-GEN power supply card (incl. installation board G8A-GEN)
- G8-GEP processor card
- G8-NET connection card (incl. installation board G8A-NET, 1m / 3.3ft cable)
- Depending on Variant: PA 700 transformer incl. mounting set for DIN rail TS 35
- Tool for removing of installation boards
- CD "Software & Manuals"

NETWORK REQUIREMENTS G8-NET

QoS Requirements

- Maximum One-Way-Delay 100 ms
- Delay-Jitter not above 50 ms
- 0% packet loss for perfect audio quality

Bandwidth

- Required Bandwidth incl. protocol overhead, for upload/download each: speech and data 96 kBit/s
- Speech is compressed according to G.722 standard

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