

# KSC GPIO Controller

General Purpose I/O Controller



- General purpose GPIO controller
- 32 opto inputs and 32 relay outputs
- 25-pin Cannon sockets in front
- 10/100 Mbit/s LAN control ports
- Highly compact design
- Fully integrated into the KSC product line
- Can be integrated in any other control system

The **KSC GPIO Controller** is a universal interface for direct and simple cross-device communication. The controller comprises 32 inputs and switches 32 galvanically isolated relay outputs.

The **KSC GPIO Controller** forms a link between the logical level of a control system (e.g. KSC CORE) and the physical system environment. This is where digital signals (which can only be either ON or OFF) are captured or switched. The **KSC GPIO Controller** is built in an extremely compact way (19", 1 RU, 50 mm installation depth).

The front side provides 32 optically isolated inputs and 32 galvanically isolated relay outputs. The opto inputs process signal voltages from 3V to 28V. The GPIO controller communicates with the connected control system (e.g. KSC CORE) via a 10/100 MBit/s LAN connection. The heart of the controller is a X86 processor module clocked at 300 MHz with a Linux operating system.

A serial interface with RS232 level is available for service purposes. The GPIO controller is supplied with 24 V DC. Five LEDs on the front indicate the operating status.

## Key Features

- General purpose I/O controller
- 32 opto inputs and 32 relay outputs
- Compact design
- Robust construction
- Low installation depth
- All GPIO ports accessible from the front
- Easy to service

## Application Areas

Can be used anywhere, for example:

- Command mute
- Lamp signaling
- Door contact signaling
- Tally signaling
- Emergency switching
- Transmission line switching
- Fader start
- Camera matching

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## Ordering Information

| Item Number  | Designation  |
|--------------|--|
| 400892 ..... | GP-IO-32/Z1 LAN<br>Front: RAL7016                          |
| 214324 ..... | Desktop power supply NG-007<br>90 - 230 VAC in, 24 VDC out |

## Technical Data

### LAN Port

Network interface ..... 10/100 Mbit/s Ethernet (RJ45, 8-pin)  
10Base-T (IEEE 802.3 C14), 100Base-T  
(IEEE 802.3 C24)

### Serial Interface

Service interface..... RS232C SERVICE Male (RJ11, 6-pin)

### USB Port (optional)

USB interface..... USB2.0, 480 MBit/s, type A socket  
(backward compatible with USB1.0 /  
USB1.1)

### Inputs

Characteristic ..... 32 galvanically isolated opto coupler inputs  
Operating range ..... 3 to 28 V DC  
(measured between IN+ and IN-)  
Power consumption ..... 3 mA, max. 25 mA (per input)

### Outputs

Characteristic ..... 32 galvanically isolated reed relay outputs  
Dielectric strength ..... 48 VDC  
Switching capacity ..... max. 15 W  
Switching current ..... max. 0,5 A  
Contact resistance ..... 150 mOhm  
I/O power supply ..... 5 VDC, max. 2 A

### Power Fail Output - Reed Relay

Dielectric strength ..... 48 VDC  
Switching capacity ..... max. 15 W  
Switching current ..... max. 0,5 A  
Contact resistance ..... 150 mOhm

### Electrical Data

Power supply ..... 24 V/50Hz (+10/-20%)  
Power consumption ..... Typ. 8 W  
Fuse ..... Electronic, automatic reset

### Ambient Operating Conditions

Operating temperature . 0° to +40° C  
Storage temperature .... -10° to +60° C

### Enclosure

Dimensions ..... 19", 1 RU subrack  
482 mm x 44 mm x 50 mm (WxHxD)  
Weight ..... 1320 g  
Front panel ..... RAL7016

### System Requirements

Control system (e.g. KSC CORE)

## Service

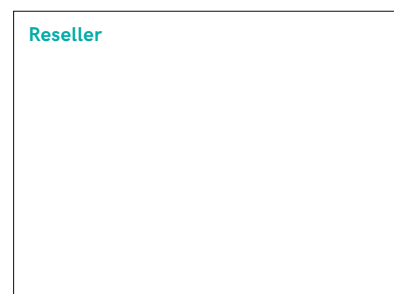
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