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 swtiching
- Transmission line switching
- Fader start
- Camera matching

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Ordering Information

Item Number	Designation
400892	GP-IO-32/Z1 LAN Front: RAL7016
214324	Desktop power supply NG-007 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

Extensive support for hardware and software through professional service level agreements. Please ask for our customer specific versions, tailored to your needs.

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