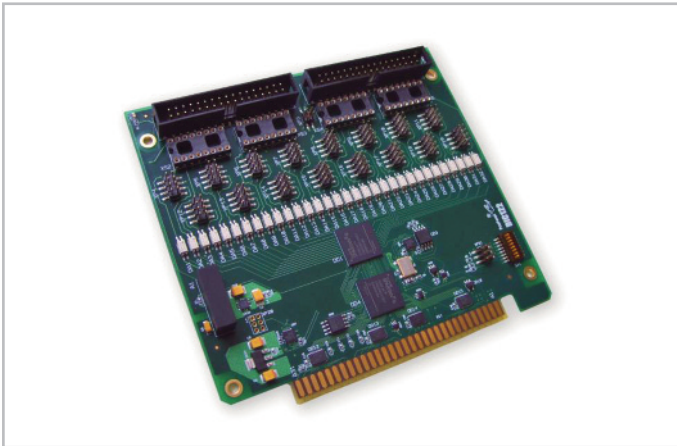


DIC123

Digital Input Card with Galvanic Isolation



Features

- System bus: 8-bit ISA bus
- 32x digital output channels
- Single-wire or two-wire connection of signals
- Switching output voltages/currents 60 V / 500 mA (by differential loading)
- LED indication of requests (addressing)
- Maximum switch on/switch off time: 3 ms
- Optical isolation of outputs between channels: 500 V
- Optical isolation of outputs between a channel and the "ground": 1000 V
- Control of output states (before isolation)
- Six separated lines of hardware interrupts
- Software compatibility with: FDOS, FreeDOS

Overview

The Module is implemented in MicroPC standard and is designed for switching of 32-x DC voltage up to 60 V at the load current up to 500 mA.

All the channels are isolated from the system and from each other.

By switching on the power supply and after the RESET hardware signal, all the outputs are in the off state. The module can read the state of outputs (up to optical isolation).

The module has 32 channels for output of digital signals with the channel-by-channel galvanic isolation. The module uses the field-programmable gate array (FPGA), which makes it possible to change operation algorithm of outputs (or diagram) without changing the topology.

Loading: single-wire/two-wire connection.

The module is hardware- and software-compatible with digital output modules with DO32 galvanic isolation (DIC113).

Technical Specifications

System Bus

- 8 bit ISA bus

Digital Output

- 32 digital output channels
- Single wire or two-wire connection of signals
- Switching output voltages/currents: 60 V / 500 mA (by differential way of loading)

LED indicator

- LED indication of requests (addressing)

General features

- Maximum switch on/switch off time: 3 ms
- Optical isolation of outputs between channels: 500 V
- Optical isolation of outputs between a channel and the "ground": 1000 V

Additional features

- Control of output states (before isolation)

Main control possibilities

- Module addressing (same as with DIC113)
- Programming of interrupts

Power supply and power consumption

- +5 V $\pm 5\%$, up to 450 mA (included into the relay without load)

Operating temperature range

- $-40 \dots +85^\circ\text{C}$

Software compatibility

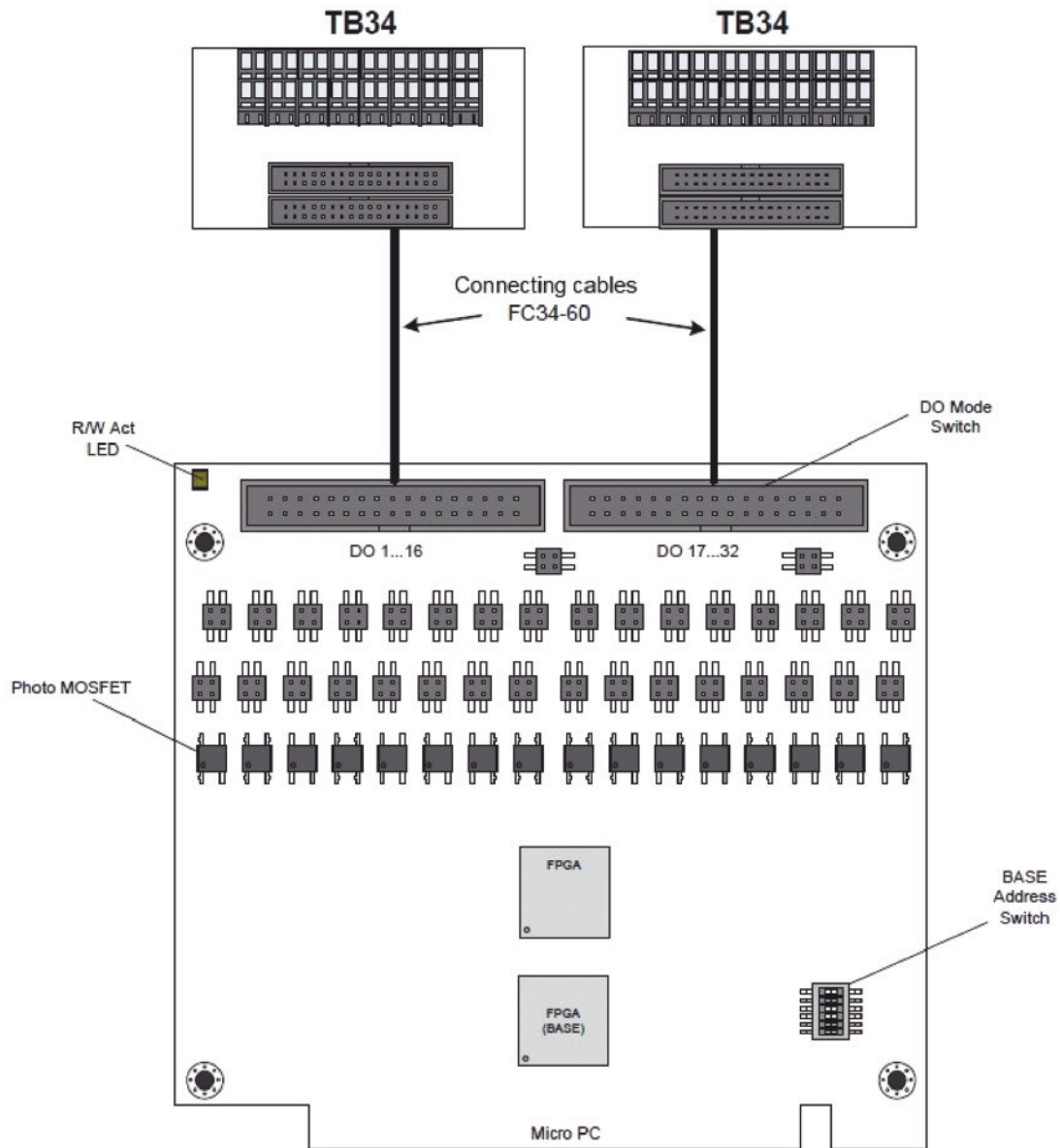
- FDOS
- FreeDOS



DIC123

Digital Input Card with Galvanic Isolation

Board Layout



Fastwel



Fastwel



Fastwel

DIC123

Digital Input Card with Galvanic Isolation

Ordering Information

DIC123 Configuration

DIC123 - 01 \ Coated

Configurations

01	Digital Output Card with Galvanic Isolation, System Bus; 8 bit ISA, 5 V \pm 5%, up to 450 mA, operating temperature range: $-40\dots+85^{\circ}\text{C}$
\Coated	Option of the card with conformal coating

Delivery checklist

1. DIC123 Digital Output Card
2. Packaging

Additional accessories

ACS00003 (FC34-60) – flat ribbon cable, 34 threads, IDC, 0,6 m connectors
TIB96601 (TB34) – terminal board, 34 contacts

Corporate Offices

FASTWEL GROUP Co., Ltd

108 Profsoyuznaya str.
Moscow, Russia 117437
Tel: +7 (495) 232-1681
Fax: +7 (495) 232-1654
E-mail: info@fastwel.com
Web: www.fastwel.com

FASTWEL Corporation US

Fastwel Corporation US
6108 Avenida Encinas,
Suite B, Carlsbad,
CA 92011.
Phone: 858-488-3663
E-mail: info@fastwel.com



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