

Z-PC LINE

Digital I/O modules

ZC-16DI-8DO

16CH Digital Input, 8CH Digital Output module / CANopen-ModBUS RTU



NEW
CANopen & ModBUS
all-in-one



Power Supply
Max Consumption
Isolation
Digital Inputs

10..40 Vdc, 19..28 Vac
2,5 W
1,5 kVac (3 way)
16; Nr 8 with totalizer @ 32 bit (max 10 kHz);
TPDO < 1 ms

Digital Outputs

8, 32 bit (max 10 kHz); Mosfet, max 500 mA per channel,
Vext: 5..30 Vdc; RPDO < 1,25 ms

Supported Protocols

CAN bus standard (2.0A), CANopen (CiA 401 v.2.01),
ModBUS RTU

Dip-Switches

Baud rate and ID Node configuration

Operating temperature

-10..+65°C

Dimension (W*H*D)

35 x 100 x 112 mm



➔ For additional information please refer to www.seneca.it

ZC-16DI-8DO

16 CH Digital Input, 8 CH Digital Output module / CANopen-ModBUS RTU



ORDER CODES

| | | |
|----------------------|--|---|
| Model | ZC-16DI-8DO | 16 CH Digital Input, 8 CH Digital Output module / CANopen-ModBUS RTU |
| Accessories | Z-PC-DINAL1-35 Z-PC-DIN1-35 Z-PC-DIN4-35 PM001601 | Terminal block for power / bus + 1 slot 35 mm 1 slot block 35 mm 4 slot block 35 mm Programming serial cable Jack / DB9F |
| Configuration | | EDS File (Electronic Data Sheet) free on www.seneca.it |

TECHNICAL FEATURES

GENERAL DATA

| | |
|---------------------------------|--|
| Power Supply | 10..40 Vdc; 19..28 Vac |
| Max consumption | 1 W |
| Isolation | 1,5 kVac (3 way) |
| Input Protection | Against ESD up to 4 kV |
| Rejection | Settable 50 or 60 Hz |
| Status indicators (LED) | Power Supply, communication, fault |
| Dimension (WxHxD) | 35 x 100 x 112 mm |
| Enclosure, weight, color | PBT, 140 g, black |
| Operating temperature | -10..+65°C |
| Connection | Screw-fit removable for wires up to 3.5 mm IDC10 Back connector for DIN rail frontal Jack RS232 (ModBUS) (COM) connection |
| Protection degree | IP20 |
| Configuration | DIP switches (baud rate, ID Node) EDS IEC 61131 |
| Supported Protocols | CAN bus standard (2.0A) CANopen (profile CiA 401 v.2.01) ModBUS RTU |
| Max CANopen Speed | 1 Mbps |
| Norms & Approvals | CE, EN 61000-6-4, EN 64000-6-2, EN 61010-1 CAN 2.0A CiA 401 v.2.01 IEC EN 61131-2 |

INPUT DATA

| | |
|-------------------|---|
| Channels | 16 (with shared negative pole, selfpowered at 16 Vdc) |
| Type | EN 61131-2 type 2, synq (pnp); Vmax=30 V |
| Totalizers | Nr 8 @ 32 bit, freq. max 10 kHz Settable increment, reset, preset, overflow indication |
| TPDO | < 1 ms |

OUTPUT DATA

| | |
|-----------------|--|
| Channels | 8 Mosfet (open source) with shared negative pole |
| Imax | 0.5 A (from terminals); 25 mA (from connectors) |
| RPDO | < 1,25 ms |

CANOPEN FEATURES

| | |
|---------------------------|--|
| NMT | Slave |
| Error control | Node guarding |
| Node ID | Software, DIP-switches |
| Nr PDO | RX 5 |
| PDO Modes | Event Triggered, Sync (cyclic), Sync (acyclic) |
| PDO linking | Yes |
| PDO mapping | Variable |
| Nr SDO Server | 1 |
| Emergency Messages | Yes |
| Application layer | CiA 301 v. 4.02 |
| Profile | CiA 401 v. 2.01 |

ELECTRICAL CONNECTIONS

Module insertion on DIN guide 46277

IDC10 back connectors

Digital Inputs

Digital Outputs

Backplane bus Z-PC DIN

CANbus Connection Norms

| Baud rate | Lunghezza bus | Lunghezza derivazione |
|-----------|---------------|-----------------------|
| 20 kbps | 1000 m | 150 m |
| 50 kbps | 1000 m | 60 m |
| 125 kbps | 500 m | 5 m |
| 250 kbps | 250 m | 5 m |
| 500 kbps | 100 m | 5 m |
| 800 kbps | 50 m | 3 m |
| 1000 kbps | 25 m | 0.3 m |

Connessione seriale RS232 - DB9F / Jack stereo



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