

Z-PC LINE

Digital I/O modules

ZC-16DI-8DO

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



Power Supply
Max Consumption
Isolation
Digital Inputs

Digital Outputs

Supported Protocols

Dip-Switches
Operating temperature
Dimension (W*H*D)

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

8, 32 bit (max 10 kHz); Mosfet, max 500 mA per channel,

Vext: 5..30 Vdc; RPDO < 1,25 ms

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

Baud rate and ID Node configuration

-10..+65°C

35 x 100 x 112 mm



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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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