

Z-PC LINE

Digital I/O modules

ZC-24DO

24 CH Digital Output module / CANopen-ModBUS RTU



NEW
CANopen & ModBUS
all-in-one



CANopen



Modbus

Power Supply	10..40 Vdc, 19..28 Vac
Max Consumption	2,5 W
Isolation	1,5 kVac (3 way)
Channels	24
Output type	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



TR AUTOMATYKA Sp. z o.o.

ul. Lechicka 14
02-156 Warszawa
email: biuro@trautomatyka.pl

tel.: +48 22 886 10 16
fax: +48 22 846 50 37

ZC-24DO

24 CH Digital Output module / CANopen-ModBUS RTU



ORDER CODES

Model	ZC-24DO	24 CH Digital Output module / CANopen-ModBUS 10..40 Vdc / 19..28
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 (3way)
Input Protection	Against ESD up to 4 kV
Rejection	Settable 50 or 60 Hz
Status indicator (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

OUTPUT DATA

Channels	24
Output type	Mosfet (open source) with shared negative pole
Power Supply	5..30 Vdc
Imax	0.5 A (connection from terminals) 25 mA (connection from connectors)
On/Off delay from RPDO	< 1,25 ms

CANOPEN FEATURES

NMT	Slave
Error control	Node guarding
Node ID	Software, DIP-switch
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 Outputs via terminals

RS232 - DB9F / Jack stereo Serial connection

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

Digital Outputs via connectors



TR AUTOMATYKA Sp. z o.o.

ul. Lechicka 14
02-156 Warszawa
email: biuro@trautomatyka.pl

tel.: +48 22 886 10 16
fax: +48 22 846 50 37