

Z-PC SERIES

Mixed I/O Modules

ModBUS RTU ↔ ModBUS TCP-IP



- Mixed I / O Modules for analog and digital signals
- High Performance Modules with 100 MHz ARM processor
- MODBUS TCP-IP Protocol
- MODBUS RTU Protocol on bus / clamps
- Built-in web server for remote visualisation and configuration of the I / O values
- Extended range for input voltage up to 30 V
- 16-bit ADC, acquisition speed configurable from 5 to 300 ms
- Software EASY SETUP through USB port

MIXED I/O MODULES - MODBUS RTU ↔ MODBUS TCP-IP

ZE-2AI



**2 CH Analogue input
Modbus RTU - Modbus TCP-IP**

ZE-4DI-2AI-2DO



**4 CH Digital Input/ 2 CH Analogue Input
2 CH Digital Output
Modbus RTU-Modbus TCP-IP**

Z-4DI-2AI-2DO



**4 CH Digital Input/ 2 CH Analogue Input
2 CH Digital Output
Modbus RTU**

TECHNICAL SPECIFICATIONS

GENERAL DATA			
Power supply	11..40 Vdc; 19..28 Vac	11..40 Vdc; 19..28 Vac	11..40 Vdc; 19..28 Vac
Status indicators	RX/TX RS485 / IP / DHCP / Ethernet Activity / Ethernet Link	RX/TX RS485 / IP / DHCP / Ethernet Activity / Ethernet Link	RX/TX RS485 / Error
Protection degree	IP20	IP20	IP20
Operating Temperature	-10..+65°C	-10..+65°C	-10..+65°C
Dimensions	17.5 x 100 x 112 mm	35 x 100 x 112 mm	35 x 100 x 112 mm
Weight	140 g	170 g	170 g
Connectors	Removable screw terminals and rear connector IDC 10	Removable screw terminals and rear connector IDC 10	Removable screw terminals and rear connector IDC 10
Mounting	DIN 35 mm rail guide 46277	DIN 35 mm rail guide 46277	DIN 35 mm rail guide 46277
COMMUNICATION, PREPARATION, STORAGE			
Interfaces	N°1 Ethernet 10/100 Mbps N°2 RS485 N°1 mini USB 2.0	N°1 Ethernet 10/100 Mbps N°2 RS485 N°1 mini USB 2.0	N°2 RS485 N°1 mini USB 2.0
Speed	100 Mbps (TCP-IP) 115.200 bps (RS485)	100 Mbps (TCP-IP) 115.200 bps (RS485)	115.200 bps (RS485)
Protocol	ModBUS RTU ModBUS TCP-IP Http	ModBUS RTU ModBUS TCP-IP Http	ModBUS RTU
Processor	ARM Cortex M4 100 MHz	ARM Cortex M4 100 MHz	ARM Cortex M4 100 MHz
Memory	RAM: 128 kB Flash: 512 kB FeRAM: 64 kB (Data Saving digital counters)	RAM: 128 kB Flash: 512 kB FeRAM: 64 kB (Data Saving digital counters)	RAM: 128 kB Flash: 512 kB FeRAM: 64 kB (Data Saving digital counters)
I/O			
Number of Channels	2	8	8
Type	N°2 Analog Inputs 0-20 mA / 0-30 V	N°2 Analog Inputs 0-20 mA / 0-30 V N°4 Digital Inputs PNP / NPN N°2 Digital Outputs Relay NA / NC max 5 A N°4 totalizers @ 32 bit max 10 kHz N°4 resettable counters @ 32 bit max 10 kHz	N°2 Analog Inputs 0-20 mA / 0-30 V N°4 Digital Inputs PNP / NPN N°2 Digital Outputs Relay NA / NC max 5 A N°4 totalizers @ 32 bit max 10 kHz N°4 resettable counters @ 32 bit max 10 kHz
Resolution	16-bit ADC, acquisition speed from 5 to 300 ms	16-bit ADC, acquisition speed from 5 to 300 ms	16-bit ADC, acquisition speed from 5 to 300 ms
Accuracy Class	0,1%	0,1%	0,1%
Termal drift	100 ppm	100 ppm	100 ppm
PROGRAMMING			
Software	EASY SETUP	EASY SETUP	EASY SETUP
DIP-switch	Yes (address, speed)	Yes (address, speed)	Yes (address, speed)
Web Server	Yes (remote configuration I / O)	Yes (remote configuration I / O)	No
STANDARD			
Certifications	CE	CE	CE
Norms	EN 61000-6-4, EN 61000-6-2, EN 61010-1	EN 61000-6-4, EN 61000-6-2, EN 61010-1	EN 61000-6-4, EN 61000-6-2, EN 61010-1

ACCESSORIES

BUS SUPPORT

Z-PC-DIN1-35	Back rail 35 mm width modules - 1 slot
Z-PC-DIN2-17.5	Back rail 17.5 mm width modules. 2 slots
Z-PC-DIN4-35	Back rail 35 mm width modules - 4 slots
Z-PC-DIN8-17.5	Back rail 17.5 mm width modules - 8 slots
Z-PC-DINAL1-35	Back rail 35 mm width modules - Power/Bus conn. + 1 slot
Z-PC-DINAL2-17.5	Back rail 17.5 mm width modules. Power/Bus conn. + 2 slots

POWER SUPPLY

Z-POWER 115-15VA	21 Vac transf.(Pow. supply for Z-PC system) 115/15 VA
Z-POWER 230-15VA	19 Vac transf.(Pow. supply for Z-PC system) 230/15 VA
Z-POWER 230-25VA	20 Vac transf.(Pow. supply for Z-PC system) 230/25 VA
Z-SUPPLY	Power supply for generic use and Z-PC line products



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