

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


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

| | ZE-2AI | ZE-4DI-2AI-2DO | Z-4DI-2AI-2DO |
|--|---|---|---|
| |  |  |  |
| | 2 CH Analogue input Modbus RTU - Modbus TCP-IP | 4 CH Digital Input/ 2 CH Analogue Input 2 CH Digital Output Modbus RTU-Modbus TCP-IP | 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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