ERS202
Ethernet Remote Station

The bus coupler ERS202 supports serveral Ethernet-based protocols and can be used as a Profinet RT slave, Modbus TCP/ UDP slave or as a bluecom station. The two Ethernet ports enable media redundancy and the operation in an M1 hot-standby CPU-redundancy application. The robust design as a ColdClimate version provides protection even under hard environmental conditions. An integrated power supply simplifies the construction.

- 1 serial interface
- 2 Ethernet-interfaces 10/100 Mbit/s with status displays
- 1 USB interface
- Status indicating LEDs for RUN, INIT and ERROR
- RAM 256 MB DRAM
- Data memory 512 kB NVRAM
- Program memory of 16 MB and internal FLASH (4 MB for system software, 12 MB for redundancy configuration)
- Integrated power supply
- Condensation-proof ColdClimate design (❄)

Item	Item-No.
ERS202	00032415-10
ERS202 CC	00032416-10

ERS202

Processor + memory

CPU	x86
NVRAM (data memory)	512 kB
DRAM (working memory)	256 MB
FLASH (program memory) [1]	16 MB internal

Interfaces

Serial	1x RS232
Ethernet	2x 10 / 100 base-Tx
USB	1x USB 2.0

Power supply

Voltage range	18 to 34 VDC
Nominal power	17 W
Current consumption at + 5 V	2000 mA
Current consumption at + 15 V	250 mA
Current consumption at - 15 V	200 mA

Additional features

Watchdog

Synchronization pulse for Ethernet

Real-time clock with battery

Status indication via 3 LEDs

CPU ID selectable with rotary hexadecimal switches

Operating system VxWorks with Bachmann system extensions on internal FLASH

Approvals / Certificates

General	CE, cULus, CCC

Ambient conditions	Standard	ColdClimate (❄)
Operating temperature	-30 to +60 °C, fan-free	
Rel. humidity operation	5 to 95% without condensation	5 to 95% with condensation
Storage temperature	-40 to +85 °C	
Rel. humidity storage	5 to 95% without condensation	5 to 95% with condensation
Maximum operating altitude	2000 m above sea level (with derating up to 4500 m)	
Pollution degree (IEC 60664-1)	2 (without condensation)	2

1) Depending on the configuration, a part of the program memory is reserved for the system software

Order Codes

Item	Item No.	Description
ERS202	00032415-10	Ethernet Remote Station; 2x Eth100; 1x RS232; 1x USB2.0; inegrated power supply 17W;
ERS202 CC	00032416-10	Ethernet Remote Station; 2x Eth100; 1x RS232; 1x USB2.0; inegrated power supply 17W; ColdClimate (❄)
Accessories		
KZ 51/03 B	00012052-00	Terminal 03-pins grid 5,08; cage clamp terminal with labeling strip