



ERS202 Ethernet Remote Station

The ERS202 node adapter supports several 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 M200 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.

Features

- 1 serial interface
- 2 Ethernet-interfaces 10/100 Mbit/s with status indications
- 1 USB interface
- Status indications for RUN, INIT and ERROR
- Working memory 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
- Optional condensation-proof ColdClimate design (❄️)

Part type designation	Part number
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

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

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

Power supply	
Voltage range	18 V DC to 34 V DC
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, UKCA, cULus	
Environmental conditions	Standard	ColdClimate (❄️)
Operating temperature	-30 °C bis +60 °C without fan	
Relative humidity, operation	5 % to 95 % noncondensing	5% to 95% with condensation
Storage temperature	-40 °C to +85 °C	
Relative humidity, storage	5 % to 95 % noncondensing	5% to 95% with condensation
Installation altitude	2000 m above sea level (with derating up to 4500 m)	
Pollution degree (IEC 60664-1)	2 (noncondensing)	2

Order data

Part type designation	Part number	Description
ERS202	00032415-10	Ethernet Remote Station; 2x Eth100; 1x RS232; 1x USB 2.0; integrated power supply 17 W
ERS202 CC	00032416-10	Ethernet Remote Station; 2x Eth100; 1x RS232; 1x USB 2.0; integrated power supply 17 W; ColdClimate (❄️)

Accessories

Part type designation	Part number	Description
KZ 51/03 B	00012052-00	Terminal 03 pin spacing 5.08; cage clamps with labeling strips