

Bus Coupler



ERS202 CC (ColdClimate) Ethernet Remote Station

The bus coupler ERS202 CC 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 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.

- The module offers the following features:
- 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

Item	Item No.
ERS202 CC	00021244-00

Bus Coupler

ERS202 CC

Processor + memory

CPU	x86
NVRAM (data memory)	512 kB
DRAM (working memory)	256 MB
FLASH (program memory)*	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, UL/cUL, CCC
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Ambient conditions

Operating temperature	-30 to +60 °C, fan-free
Rel. humidity operation	5 to 95% with condensation
Storage temperature	-40 to +85 °C
Rel. humidity storage	5 to 95% with condensation
Pollution degree	2 (according to IEC 60664-1)

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

Order Codes ERS202 CC

Item	Item No.	Description
ERS202 CC	00021244-00	Ethernet Remote Station; 2x Eth100; 1x RS232; 1x USB2.0; integrated power supply 17W; ColdClimate (☼)
Accessories		
KZ 51/03 B	00012052-00	Terminal 03-pins grid 5,08; cage clamp terminal with labeling strip