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

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<td>00021244-00</td>
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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
- **Ambient conditions**
  - **ColdClimate**: -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**

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<tr>
<td>ERS202 CC</td>
<td>00021244-00</td>
<td>Ethernet Remote Station; 2x Eth100; 1x RS232; 1x USB2.0; integrated power supply 17W; ColdClimate (⊕)</td>
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<td><strong>Accessories</strong></td>
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<tr>
<td>KZ 51/03 B</td>
<td>00012052-00</td>
<td>Terminal 03-pins grid 5,08; cage clamp terminal with labeling strip</td>
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