# bus module
## CPX-E-PN
Part number: 4080497
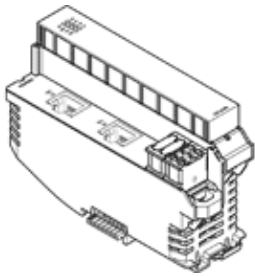
## Data sheet

| Feature | Value |
|---|---|
| Dimensions W x L x H | 42,2 mm x 125,8 mm x 76,5 mm |
| Grid dimension | 18.9 mm |
| Mounting type | with top-hat rail |
| Max. no. of modules | 10 |
| Product weight | 145 g |
| Ambient temperature | -5 ... 50 °C |
| Note on ambient temperature | -5 - 60°C for vertical installation |
| Storage temperature | -20 ... 70 °C |
| Relative air humidity | 95 %<br>non-condensing |
| Protection class | IP20 |
| Corrosion resistance classification CRC | 0 - No corrosion stress |
| Vibration resistance | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27 |
| Protection against direct and indirect contact | Safety extra-low voltage with safe disconnection (PELV) |
| PWIS conformity | VDMA24364 zone III |
| CE symbol (see declaration of conformity) | according to EU-EMV guideline |
| KC mark | KC-EMV |
| Authorization | RCM Mark<br>c UL us - Listed (OL) |
| Certificate issuing department | UL E239998 |
| Materials note | Conforms to RoHS |
| Material housing | PA |
| Diagnostics via LED | Network errors<br>Force mode<br>Network status port 1<br>Network status port 2<br>Power supply electronics/sensors<br>Power supply load<br>System error<br>Maintenance required |
| Diagnostics via bus | Wire break<br>Short circuit<br>PROFIsafe addresses different<br>parameterisation error<br>Upper limit value not observed<br>Overtemperature<br>Lower limit value not observed<br>Undervoltage |
| Fieldbus interface | Ethernet |
| Fieldbus interface, protocol | PROFINET IRT<br>PROFINET RT |
| Fieldbus interface, type of connection | 2x socket |
| Fieldbus interface, connection technology | RJ45 |

| Feature | Value |
|---|---|
| Fieldbus interface, number of pins/wires | 8 |
| Fieldbus interface, electrical isolation | Yes |
| Fieldbus interface, transmission rate | 100 Mbit/s |
| Maximum address volume for inputs | 64 Byte |
| Fieldbus interface, max. address volume for inputs | 64 Byte |
| Note on inlets | 62  bytes with I/O diagnostic interface<br>62  bytes with status bits<br>64  bytes without diagnostics |
| Maximum address volume for outputs | 64 Byte |
| Fieldbus interface, max. address volume for outputs | 64 Byte |
| Note on outputs | 62  bytes with I/O diagnostic interface<br>64  bytes with status bits<br>64  bytes without diagnostics |
| System parameters | Diagnostic memory<br>Fail-safe reaction<br>Force mode<br>System start |
| Module parameters | Channel alarms bundling<br>Undervoltage diagnostics<br>Channel alarms undervoltage<br>Process value representation of analogue modules |
| Configuration support | GSDML file |
| Additional functions | LLDP<br>MRP<br>MRPD<br>PROFINET I&MO..3, 1..3 retentive memory possible<br>PROFINET FSU<br>PROFINET Shared device<br>S2 system redundancy<br>SNMP |
| Power supply, function | Electronics and sensors |
| Power supply, type of connection | Terminal strip |
| Power supply, connection technology | Cage clamp terminal |
| Power supply, number of pins/wires | 4 |
| Nominal operating voltage DC for electronics/sensors | 24 V |
| Permissible voltage fluctuations for electronics/sensors | ± 25 % |
| Power supply, conductor diameter | 0.2 ... 1.5 mm2 |
| Power supply, note on conductor diameter | 0.2 - 2.5 mm² for flexible conductors without wire end sleeves |
| Max. power supply | 8 A |
| Intrinsic current consumption at nominal operating voltage for electronics/sensors | Typically 75 mA |
| Power failure buffering | 20 ms |