

# Bus node CTEU-EP-EX1C

Part number: 8107591



 [General operating condition](#)

## Data sheet

| Feature                                      | Value  |
|--|--|
| Protocol                                     | EtherNet/IP<br>Modbus TCP  |
| Dimensions (W x L x H)                       | 40 mm x 91 mm x 50 mm  |
| Product weight                               | 98 g   |
| Ambient temperature                          | 0 °C ... 50 °C   |
| Storage temperature                          | -20 °C ... 70 °C   |
| Degree of protection                         | IP65<br>IP67   |
| Corrosion resistance class CRC               | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                       | VDMA24364 zone III   |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>In accordance with EU RoHS Directive  |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions  |
| Approval                                     | RCM<br>c UL us - Listed (Oil)  |
| Explosion protection                         | Class I, Div. 2 (CA)<br>Class I, Div. 2 (US)<br>Class II, Div. 2 (CA)<br>Class II, Div. 2 (US)<br>Zone 0 (BR)<br>Zone 2 (ATEX)<br>Zone 2 (CA)<br>Zone 2 (CN)<br>Zone 2 (IEC-EX)<br>Zone 2 (KR)<br>Zone 2 (UKEX)<br>Zone 2 (US)<br>Zone 22 (ATEX)<br>Zone 22 (BR)<br>Zone 22 (CA)<br>Zone 22 (CN)<br>Zone 22 (IEC-EX)<br>Zone 22 (KR)<br>Zone 22 (UKEX)<br>Zone 22 (US) |
| ATEX category gas                            | II 3G  |
| ATEX category dust                           | II 3D  |

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|--|--|
| Explosion protection certification outside the EU  | Class I, Div. 2 (CA)<br>Class I, Div. 2 (US)<br>Class II, Div. 2 (CA)<br>Class II, Div. 2 (US)<br>Class III (CA)<br>Class III (US)<br>EPL Dc (BR)<br>EPL Dc (CA)<br>EPL Dc (CN)<br>EPL Dc (GB)<br>EPL Dc (IECEX)<br>EPL Dc (KR)<br>EPL Dc (US)<br>EPL Ga (BR)<br>EPL Gc (CA)<br>EPL Gc (CN)<br>EPL Gc (GB)<br>EPL Gc (IECEX)<br>EPL Gc (KR)<br>EPL Gc (US) |
| Explosion ignition protection type for gas         | Ex ec IIC Gc X   |
| Explosion ignition protection type for dust        | Ex tc IIIC Dc X  |
| Explosion ambient temperature                      | -5°C ≤ Ta ≤ +50°C  |
| Certificate issuing authority                      | DNV 23.0350 X/00<br>IECEX IBE 17.0003 X<br>KTL 24-KA4BO-0392X<br>KTL 24-KA4BO-0393X<br>KTL 24-KA4BO-0394X<br>KTL 24-KA4BO-0395X<br>NEPSI GY19.1188X<br>SITIIAS CCC 202032230700686<br>UL E239998   |
| Note on materials                                  | RoHS compliant   |
| Material housing                                   | Process automation   |
| LED display, product-specific                      | PS: Operating voltage for electronics and load supply<br>X1: System status of module at I-Port 1<br>X2: System status of module at I-Port 2  |
| LED display, bus-specific                          | NS: Network status<br>TP1: Network active port 1<br>TP2: Network active port 2   |
| Diagnosis  | Communication error<br>System diagnostics<br>Undervoltage  |
| Operator controls                                  | DIL switch   |
| Field bus interface                                | 2x socket, M12x1, 4-pin, D-coded   |
| Max. address volume, inputs                        | 64 Byte  |
| Max. address volume, outputs                       | 64 Byte  |
| Parameterisation                                   | Diagnostic behaviour<br>Fail-safe and idle response  |
| Baud rate  | 10/100 Mbit/s  |
| Internal cycle time                                | 1 ms per 1 byte of user data   |
| Configuration support                              | EDS file   |
| Additional functions                               | IP addressing via DHCP, DIL switch, fieldbus or FFT<br>Integrated switch<br>Ring topology (DLR)<br>SNMP<br>Start-up parameterisation in plain text via fieldbus<br>System status can be mapped using process data<br>Web server  |
| Operational voltage range DC                       | 18 V ... 30 V  |
| Nominal operating voltage DC                       | 24 V   |
| Max. power supply                                  | 4 A  |
| Intern power consumption nominal operating voltage | Typ. 65 mA   |