# GW PN/ASCII 1E/1DB9 - Interface converters

1021080

https://www.phoenixcontact.com/us/products/1021080

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CRA-READY



The GW PN/ASCII... converts RAW or ASCII serial strings into PROFINET. Includes one RJ45 port and one D-SUB 9 port.

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 1021080 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN09 |
| Product key | DNC323 |
| GTIN | 4055626513515 |
| Weight per piece (including packing) | 167 g |
| Weight per piece (excluding packing) | 111 g |
| Customs tariff number | 85176200 |
| Country of origin | US |

## Technical data

### Notes

| | |
|---|---|
| Note on application | Only for industrial use |
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

Utilization restriction

| | |
|---|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |

Utilization restriction

| | |
|---|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |

### Product properties

| | |
|---|---|
| Product type | Interface converter |
| MTBF | 92.1 Years (Telcordia standard, 25°C temperature, 50% stress, Environmental Factor = 1.0) |
| | 61.4 Years (Telcordia standard, 40°C temperature, 50% stress, Environmental Factor = 1.5) |
| Special properties | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |

### Electrical properties

| | |
|---|---|
| Electrical isolation | IEC UL 61010-1 (VCC // Ethernet) |
| Maximum power dissipation for nominal condition | 1.44 W (at 24 V DC) |
| Test voltage data interface/data interface | 1.5 $kV_{rms}$ (50 Hz, 1 min.) |
| Test voltage data interface/power supply | 1.5 $kV_{rms}$ (50 Hz, 1 min.) |
| | 1.5 $kV_{rms}$ |

Supply

| | |
|---|---|
| Supply voltage range | 10.8 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| Typical current consumption | 48 mA (24 V DC) |
| Max. current consumption | 60 mA (24 V DC) |

Function

| | |
|---|---|
| Management | Web-based management |
| Status and diagnostic indicators | LEDs: Status, ACT/LNK (Ethernet data traffic) |

### Connection data

Supply

| | |
|---|---|
| Conductor cross-section, flexible | 0.20 mm² ... 2.50 mm² |
| Conductor cross-section AWG | 24 ... 12 |
| Tightening torque | 0.5 Nm ... 0.6 Nm |

## Interfaces

| | |
|---|---|
| Signal | Ethernet |
| | PROFINET |
| Web server | yes |

Data: PROFINET

| | |
|---|---|
| Serial transmission speed | 10/100 Mbps, auto negotiation |
| Connection method | RJ45 jack, shielded |
| No. of channels | 1 |
| Transmission length | ≤ 100 m (shielded twisted pair) |
| Protocols supported | PROFINET, ASCII |
| Auxiliary protocols | ARP, DHCP (Client), PING |

Data: RS-232

| | |
|---|---|
| Serial transmission speed | 0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps |
| Number of connections | 1 |
| Connection method | D-SUB 9 plug |
| Pin assignment | DTE |
| Transmission length | 15 m |
| File format/coding | 5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity |
| Data flow control/protocols | Software handshake, Xon/Xoff or hardware handshake RTS/CTS |

Data: RS-422

| | |
|---|---|
| Serial transmission speed | 0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps |
| Number of connections | 1 |
| Connection method | D-SUB 9 plug |
| Pin assignment | 2, 3, 5, 7, 8 |
| Transmission length | ≤ 1200 m |
| Termination resistor | 120 Ω (configurable) |
| File format/coding | 5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity |

Data: RS-485

| | |
|---|---|
| Serial transmission speed | 0.3; 0.6; 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6; 115.2; 230.4 Kbps |
| Number of connections | 1 |
| Connection method | D-SUB 9 plug |
| Pin assignment | 3, 5, 7 |
| Termination resistor | 120 Ω (configurable) |
| File format/coding | 5/6/7/8 Data bits, 1/2 Stop bits, None/Even/Odd/Mark/Space Parity |

## Dimensions

| | |
|---|---|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 115 mm |

## Material specifications

| | |
|---|---|
| Color (Housing) | light gray (RAL 7035) |
| Housing material | PA 6.6 |

## Mechanical tests

| | |
|---|---|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : |

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | < 2000 m |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |

## Approvals

### Conformity/Approvals

| | |
|---|---|
| Conformance | CE-compliant |
| UL, USA | UL 61010-1 |
| UL, USA / Canada | Class I, Div. 2, Groups A, B, C, D T4A |

### Ex data

| | |
|---|---|
| ATEX | DEMKO 18ATEX 2026X: II 3 G<br>Ex ec IIC T4 Gc |
| IECEx | IECEx UL 18.0023X<br>Ex ec IIC T4 Gc |

## EMC data

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise immunity | EN 61000-6-2:2005 |

### Noise emission

| | |
|---|---|
| Standards/regulations | EN 61000-6-4 |

## Standards and regulations

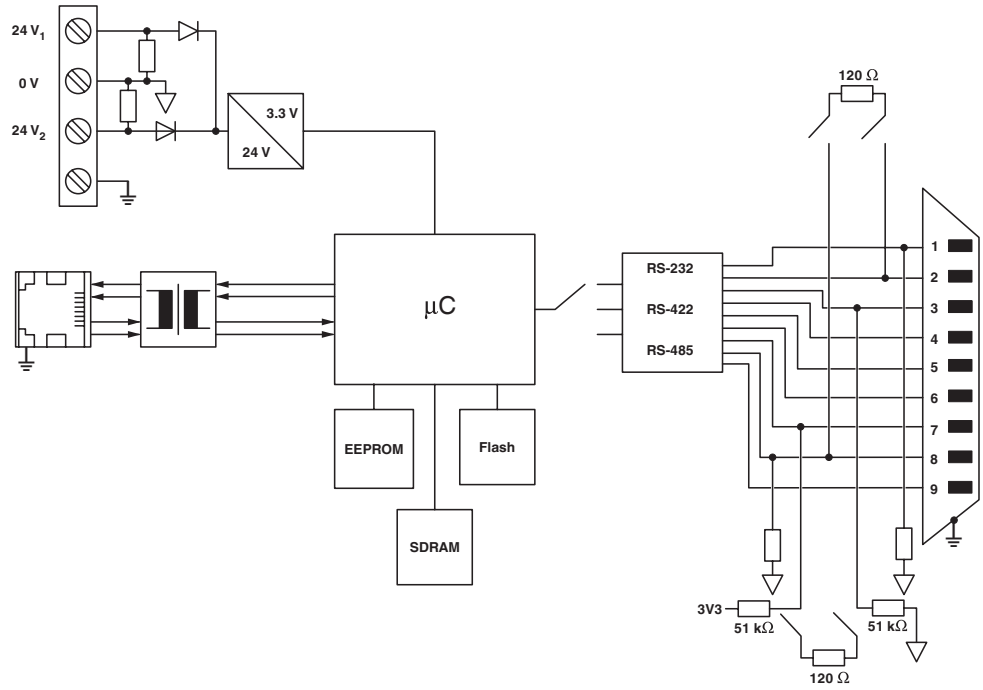
| | |
|---|---|
| Standards/regulations | EN 55022, EN 55024 |

## Mounting

| | |
|---|---|
| Mounting type | DIN rail mounting |

## Drawings

Block diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1021080

**UL Listed**
Approval ID: E238705

**cUL Listed**
Approval ID: E238705

**IECEx**
Approval ID: IECEx UL 18.0023X

**cUL Listed**
Approval ID: E196811

**UL Listed**
Approval ID: E196811

**ATEX**
Approval ID: DEMKO 18 ATEX 2026X

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27242208 |
| ECLASS-15.0 | 27242208 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001423 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 43222600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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