

GW PN/ASCII 2E/4DB9 - Interface converters



1020882

<https://www.phoenixcontact.com/us/products/1020882>

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

Commercial data

Item number	1020882
Packing unit	1 pc
Sales key	DN09
Product key	DNC323
Catalog page	Page 355 (C-6-2019)
GTIN	4055626512013
Weight per piece (including packing)	252.3 g
Weight per piece (excluding packing)	245 g
Customs tariff number	85176200
Country of origin	US

Technical data

Notes

Utilization restriction

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

CCCex note	Use in potentially explosive areas is not permitted in China.
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Product properties

Product type	Interface converter
MTBF	63.5 Years (Telcordia standard, 25°C temperature, 50% stress, Environmental Factor = 1.0)
	42.3 Years (Telcordia standard, 40°C temperature, 50% stress, Environmental Factor = 1.5)

Electrical properties

Electrical isolation	IEC UL 61010-1 (VCC // Ethernet)
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	110 mA (24 V DC)
Max. current consumption	120 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 mm ² ... 2.50 mm ²
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
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Connection method	RJ45 jack, shielded
No. of channels	2
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	4
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	4
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	4
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	45 mm
Height	99 mm
Depth	115 mm

Material specifications

Color	gray
Housing material	PA 6.6

Environmental and real-life conditions

Ambient conditions

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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 Ex ec IIC T4 Gc
IECEX	IECEX UL 18.0023X Ex ec IIC T4 Gc

EMC data

Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-4

Standards and regulations

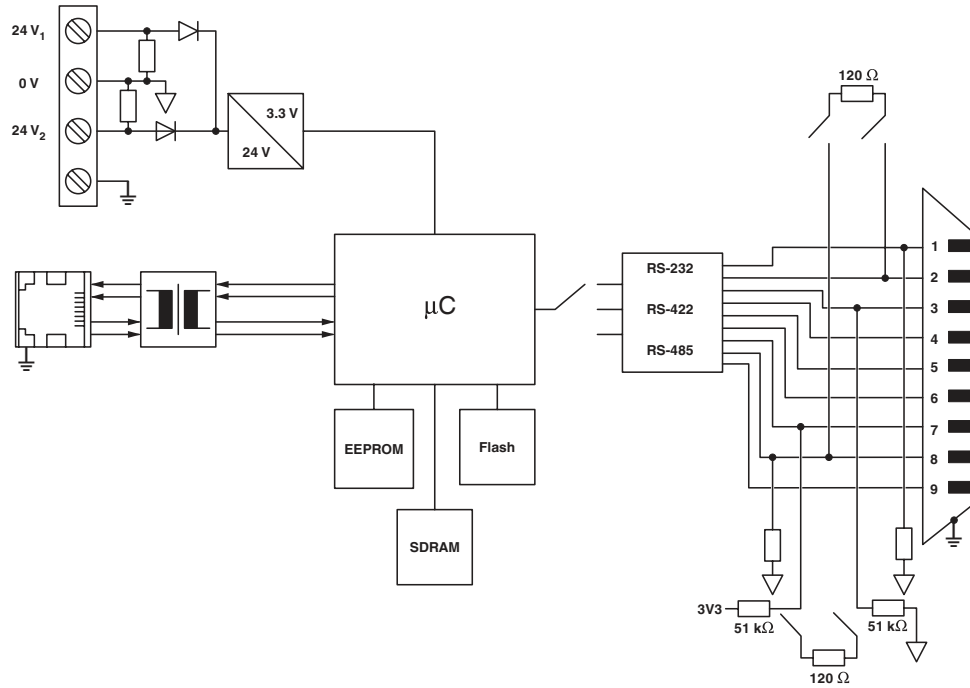
Standards/regulations	EN 55022, EN 55024
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Mounting

Mounting type	DIN rail mounting
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Drawings

Block diagram





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Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1020882>


 **UL Listed**
Approval ID: FILE E 238705


 **cUL Listed**
Approval ID: FILE E 238705

PROFINET
Approval ID: Z12467

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

 **cUL Listed**
Approval ID: FILE E 196811

 **UL Listed**
Approval ID: FILE E 196811

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

cULus Listed

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	19179090
ECLASS-12.0	19179090
ECLASS-13.0	19179090

ETIM

ETIM 8.0	EC000310
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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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Accessories

NBC-R4AC-R4AC-IE8A/.../... - Patch cable

1411854

<https://www.phoenixcontact.com/us/products/1411854>



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, cable outlet: straight, Ethernet

NBC-R4AC/10G-R4AC/10G-94F/3,0 - Patch cable

1408365

<https://www.phoenixcontact.com/us/products/1408365>



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

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VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

<https://www.phoenixcontact.com/us/products/1656725>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

VS-08-RJ45-10G/Q - RJ45 connector

1419001

<https://www.phoenixcontact.com/us/products/1419001>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

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VS-09-BU-DSUB-EG - Contact insert

1688803

<https://www.phoenixcontact.com/us/products/1688803>



D-SUB contact insert, shell size 1, with nine signal contacts, type of contact socket, with solder cup, straight, fixing with a 3 mm hole, for panel mounting frame and sleeve housing VS-09-...

VS-09-ST-DSUB-EG - Contact insert

1688793

<https://www.phoenixcontact.com/us/products/1688793>



D-SUB contact insert, shell size 1, with nine signal contacts, type of contact pin, with solder cup, straight, fixing with a 3 mm hole, for panel mounting frame and sleeve housing VS-09-...

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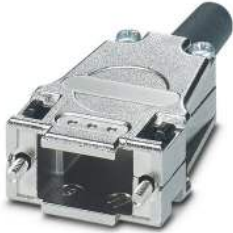
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CUC-DST-GZNI-S/DSSC9 - D-SUB sleeve housings

1419722

<https://www.phoenixcontact.com/us/products/1419722>



D-SUB sleeve housings, degree of protection: IP20, material: Zinc die-cast, cable outlet: straight, housing size: 1, color: Bare metallic

CUC-DST-GPME-S/DSSC9 - D-SUB sleeve housings

1419705

<https://www.phoenixcontact.com/us/products/1419705>



D-SUB sleeve housings, degree of protection: IP20, material: ABS, metal-plated, cable outlet: straight, housing size: 1, color: Bare metallic

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NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

<https://www.phoenixcontact.com/us/products/1408968>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

<https://www.phoenixcontact.com/us/products/1408969>



Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

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VS-PN-RJ45-5-Q/IP20 - RJ45 connector

1658435

<https://www.phoenixcontact.com/us/products/1658435>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5, material: Plastic, connection method: Insulation displacement connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

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