

FL NP PND-4TX IB - Proxy



2985974

<https://www.phoenixcontact.com/us/products/2985974>

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Proxy for PROFINET-RT-IRT, G4 functionality, INTERBUS proxy with integrated 4-port switch



Product description

The latest generation of INTERBUS proxies seamlessly integrate a complete INTERBUS system together with all its functions into a higher-level control system with PROFINET functionality. Using GSDML files, the parameterization can be integrated perfectly into the higher-level engineering system.

- The devices offer the following features:
- Data exchange, diagnostics, and parameterization are via the PROFINET protocol
 - They can be integrated and parameterized in any controller using the PROFINET functionality
 - LLDP support for topology detection
 - PROFINET update rates ≥ 1 ms

Your advantages

- PROFINET update rates = 1 ms
- Can be integrated and parameterized in any controller using the PROFINET functionality
- Data exchange, diagnostics, and parameterization are via the PROFINET protocol
- LLDP support for topology detection

Commercial data

Item number	2985974
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR14
Product key	DREBAA
Catalog page	Page 358 (C-6-2019)
GTIN	4046356168939
Weight per piece (including packing)	770.8 g
Weight per piece (excluding packing)	737.6 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Notes

Note on application	Only for industrial use
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Product properties

Product type	Gateways/Proxies
Type	Stand-Alone

System properties

INTERBUS-Master

Amount of process data	512 words
Number of supported devices	max. 512 (Depending on the control class and data direction)
Number of devices with parameter channel	max. 126 (512 words)

INTERBUS-Slave

Amount of process data	512 words
Number of PCP words	512 words

Functionality

Number of I/O nodes	8192
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Electrical properties

Maximum power dissipation for nominal condition	8.4 W
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Supply

Supply voltage (DC)	24 V DC
Supply voltage range	18.5 V DC ... 30.2 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm ²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	typ. 350 mA

Interfaces

Ethernet

Connection method	RJ45 jack
Transmission speed	10/100 Mbps
Transmission length	100 m
No. of channels	4

INTERBUS (Master)

Bus system	INTERBUS
Connection method	9-pos. D-SUB socket
Transmission speed	500 kbps / 2 Mbps (can be switched)
No. of channels	1

Signaling

Status display	7-segment display/ diagnostics LEDs
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Dimensions

Width	128 mm
Height	95 mm
Depth	69 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Vibration (operation)	5g, accordance to IEC 60068-2-6
Air pressure (operation)	80 kPa ... 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3000 m above sea level)

EMC data

Conformance with EMC directives	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electrostatic discharge (ESD)EN 61000-4-2/IEC 61000-4-2 Criterion B, ± 6 kV contact discharge, ± 8 kV air discharge
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Electromagnetic fieldsEN 61000-4-3/IEC 61000-4-3 Criterion A, Field intensity: 10 V/m
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Fast transients (burst)EN 61000-4-4/IEC 61000-4-4 Criterion A, all interfaces ± 1 kVCriterion B, all interfaces ± 2 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Transient overvoltage (surge)EN 61000-4-5/IEC 61000-4-5 Criterion B, supply lines DC: 0.5 kV/0.5 kV (symmetrical/asymmetrical), fieldbus cable shield 1 kV
	Immunity test in accordance with EN 61000-6-2/IEC 61000-6-2 Conducted interferenceEN 61000-4-6/IEC 61000-4-6 Criterion A, Test voltage 10 V
	Noise emission test in accordance with EN 61000-6-4/IEC 61000-6-4 EN 55011 Class A
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Mounting

Mounting type	DIN rail mounting
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Approvals

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EAC
Approval ID: RU*DE*08.B.00731/19



UL Listed
Approval ID: FILE E 140324



cUL Listed
Approval ID: FILE E 140324



EAC
Approval ID: RU*DE*08.B.00731/19



cUL Listed
Approval ID: FILE E 140324



UL Listed
Approval ID: FILE E 140324

Classifications

ECLASS

ECLASS-11.0	19170405
ECLASS-12.0	19170405
ECLASS-13.0	19170405

ETIM

ETIM 9.0	EC001478
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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 6(c), 7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	ed67e39a-3bed-4f7d-aa15-22b995fcb3c4

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Accessories

CF FLASH 256MB - Memory

2988780

<https://www.phoenixcontact.com/us/products/2988780>

Program and configuration memory, plug-in, 256 MB



CF FLASH 2GB - Memory

2701185

<https://www.phoenixcontact.com/us/products/2701185>

Program and configuration memory, plug-in, 2 Gbytes.



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CONFIG+ DEMO - Configuration and diagnostic software

2868046

<https://www.phoenixcontact.com/us/products/2868046>



Config+ Demo version with limited range of functions (unable to save projects). The demo version is available free of charge and does not require a license key. It is part of the AUTOMATIONWORX Software Suite, which you can download under "Downloads".

CONFIG+ - Configuration and diagnostic software

2868059

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Config+ full version for configuration and diagnostics of an INTERBUS system

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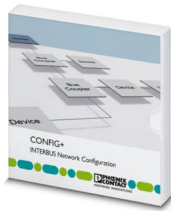
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CONFIG+ CPY - Configuration and diagnostic software

2868062

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The Config+ copy license enables the installation and parallel use of the Config+ software on multiple workstations. A single-user full license is also required. It is a workstation license

AX+ BASIC - Software

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Software CD for FDT container for integrating device DTMs (free download)

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AX DTM LIB - Programming software

2988065

<https://www.phoenixcontact.com/us/products/2988065>



DTM library

IBS SYS DIAG DSC UM - User manual

2747280

<https://www.phoenixcontact.com/us/products/2747280>

User Manual, German, for diagnosis in Generation 4 controller boards



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