1051328

https://www.phoenixcontact.com/us/products/1051328



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Safety controller (SPS), PLCnext Control; Programming: High-level language and IEC 61131-3; Operating system: Yocto/Linux® (real-time); Programming tool: PLCnext Engineer, Eclipse®, Visual Studio®, MATLAB®/ Simulink®; Processor: Intel® Core™ i5-6300U, 2x 2.4 GHz (Standard).

Product description

The RFC 4072S is the first high-performance Remote Field Controller based on PLCnext Technology. It is also possible to use applications with the highest safety requirements in accordance with SIL 3 or PLe. Standard and safety programming in only one engineering tool, thanks to PLCnext Engineer.

Your advantages

- · Integrated PROFINET controller and PROFINET device
- Support for PROFIsafe Profile V2.6.1
- · System networking M2M with OPC UA
- · Safety: highest level of safety of machinery, thanks to diversified processors and the support of up to 300 PROFIsafe devices
- PLCnext Technology for preferred programming languages and programming environments, open-source software, apps, PROFICLOUD, and soon, also PLCnext Store with real-time execution
- Performance: Use of one IntelR Core™ i5 dual-core processor and two powerful processors based on Arm architecture enables one of the best performance capabilities on the market
- · Cybersecurity in accordance with IEC 62443

Commercial data

Item number	1051328
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR09
Product key	DRADBA
GTIN	4055626673400
Weight per piece (including packing)	3,250 g
Weight per piece (excluding packing)	2,850 g
Customs tariff number	85371091
Country of origin	DE



https://www.phoenixcontact.com/us/products/1051328



Technical data

Notes

Note on application	Only for industrial way
Note on application	Only for industrial use
roduct properties	
Product type	Controller
Product family	PLCnext Control
Туре	Stand-alone
Insulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Pollution degree	2 (when installed in a control cabinet or housing with IP54 degree of protection or higher)
Display	
Diagnostics display	yes
ystem properties	
Trusted Platform Module	TPM 1.2
Processor	Arm® Cortex®-A9 800 MHz (CPU1)
	Arm® Cortex®-A8 600 MHz (CPU2)
	Intel®Core™ i5-6300U, 2x 2.4 GHz (Standard)
Retentive data storage	2 Mbyte
IEC 61131 runtime system	
Program memory	16 Mbyte
Data storage system	32 Mbyte
PROFINET	•
Device function	PROFINET controller, PROFINET device
Update rate	min. 1 ms
Conformance Class	B
Number of supported devices	max. 256
Supported functions	Topology detection
Cappolited initialisms	Automatic device replacement
	Parameterizable alarm and startup behavior
Vendor ID	00B0 _{hex} / 176 _{dez}
Function	
Diagnostics display	yes
Redundancy function	no



https://www.phoenixcontact.com/us/products/1051328



Programming languages supported	Symbolic flowchart (SFC)
	Ladder diagram (LD)
	Function block diagram (FBD)
	Structured text (ST)
	C++
	C#
	Java
	Python®
	Simulink®
System requirements	
Engineering tool	PLCnext Engineer
	Eclipse®
	Visual Studio®
	MATLAB®/ Simulink®
Application interface	OPC UA®
lectrical properties	
Power consumption	typ. 25 W (Without fan module)
	max. 35 W (With fan module)
Maximum power dissipation for nominal condition	typ. 24 W (Without fan module)
	typ. 24 W (Without fan module)
Supply	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including ripple (3.6 V _{PP}))
Power supply connection	Screw terminal blocks, plug-in
Typical current consumption	1 A
Real-time clock	
Realtime clock	integrated (capacitive buffering)
Description realtime clock	1.73 s/day = 20 ppm at 25 °C
onnection data	
Tightening torque	0.5 0.6 Nm
COMBICON connector	
Conductor cross-section, rigid	0.2 mm² 2.5 mm²
Conductor cross-section, flexible	0.2 mm² 2.5 mm²
Conductor cross-section AWG	24 12
iterfaces	
Web server	yes

USB	
Number of interfaces	1
Connection method	USB type A, male connector



https://www.phoenixcontact.com/us/products/1051328



Ethernet

Bus system	RJ45
Number of interfaces	4
Connection method	RJ45 jack
Note on the connection method	Auto negotiation and auto crossing, auto polarity exchange
Transmission speed	10/100/1000 Mbps (LAN 1/LAN 2, half duplex or full duplex)
	10/100 Mbps (LAN3.1/LAN3.2 (internally switched), half duplex or full duplex)

Dimensions

External dimensions

Width / Height / Depth	122 mm / 182 mm / 173 mm (without fan module)
	122 mm / 220 mm / 173 mm (With fan module)

Material specifications

Color gray (RAL 70	042)
--------------------	------

Characteristics

Safety data: EN ISO 13849

•	
Category	max. 4
Performance level (PL)	max. e
Safety data: IEC 61508 - High demand	
Safety Integrity Level (SIL)	max. 3
Safety data: EN IEC 62061	
Safety Integrity Level Claim Limit (SIL CL)	max. 3

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Manufacturers declaration, not evaluated by UL)
Ambient temperature (operation)	0 °C 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)
	0 °C 55 °C 2000 m 3000 m above mean sea level (With fan module only)
	0 °C 50 °C 3000 m 4000 m above mean sea level (With fan module only)
Ambient temperature (storage/transport)	-25 °C 70 °C
Permissible humidity (operation)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % 95 % (non-condensing)
Shock (operation)	20g (in accordance with EN 60068-2-27/IEC 60068-2-27)
Shock (storage/transport)	20g (in accordance with EN 60068-2-27/IEC 60068-2-27)
Vibration (operation)	1g (in accordance with EN 60068-2-6/IEC 60068-2-6)
Vibration (storage/transport)	1g (in accordance with EN 60068-2-6/IEC 60068-2-6)
Air pressure (operation)	60 kPa 108 kPa (up to 4000 m above mean sea level)



https://www.phoenixcontact.com/us/products/1051328



Air pressure (storage/transport)	58 kPa 108 kPa (up to 4500 m above mean sea level)
Resistance to gases that may endanger the functions, in acc. with DIN 40046-36, DIN 40046-37	Use of the device in these ambient conditions is prohibited.
MC data	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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 B, Supply lines: ±2 kV, Signal/data lines: ±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: ±0.5 kV, signal/data cables: ±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,

Noise emission test in accordance with EN 61000-6-

Mounting

Mounting type DIN ra	il mounting

Test voltage 10 V

4/IEC 61000-6-4



https://www.phoenixcontact.com/us/products/1051328



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1051328

PROFINET

Approval ID: Z13529

PROFINET

Approval ID: Z13529



TÜV SÜD Type testedApproval ID: IITS2 029429 0027

PROFIsafe

Approval ID: Z20352

PROFIsafe

Approval ID: Z20352

PROFINET

Approval ID: Z13530

PROFIsafe

Approval ID: Z20353

PROFIsafe

Approval ID: Z20353

PROFINET

Approval ID: Z13530



TÜV SÜD Type tested

Approval ID: IITS2 029429 0027

Cybersecurity Certificate
Approval ID: 968 CSP 1037.00 25



1051328

https://www.phoenixcontact.com/us/products/1051328



cULus Listed

Approval ID: E238705



cULus Listed

Approval ID: E238705



Functional Safety

Approval ID: 01/205/5649.01/23



https://www.phoenixcontact.com/us/products/1051328



Classifications

UNSPSC 21.0

ECLASS

	ECLASS-13.0	27242207
	ECLASS-15.0	27242207
ET	ТІМ	
	ETIM 9.0	EC000236
UN	ISPSC	

32151700



https://www.phoenixcontact.com/us/products/1051328



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-l
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: n/a)
SCIP	1a5f8f12-b6b0-49c6-a37e-9530122266de
EF3.0 Climate Change	
CO2e kg	263.2 kg CO2e

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com