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PLCnext Control with 4 x 10/100/1000 Ethernet, PROFINET controller with integrated PROFIsafe safety controller, PROFINET device, IP20 degree of protection, pluggable parameterization memory

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

Commercial data

Item number	1051328
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR09
Product key	DRADBA
Catalog page	Page 11 (C-6-2019)
GTIN	4055626673400
Weight per piece (including packing)	3,465 g
Weight per piece (excluding packing)	2,000 g
Customs tariff number	85371091
Country of origin	DE

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Technical data

Product properties

Туре	Stand-Alone
Product type	Controller
Product family	Remote Field Controller
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 degre of protection or higher)
Display	
Diagnostics display	yes
vstem properties	
Processor	Intel [®] Core™ i5-6300U 2x 2.4 GHz (Standard)
	Arm [®] Cortex [®] -A9, 800 MHz (CPU1)
	Arm [®] Cortex [®] -A8, 600 MHz (CPU2)
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	В
Number of supported devices	max. 256
Vendor ID	00B0 _{hex} / 176 _{dez}
Function	
Diagnostics display	yes
Controller redundancy	No
Safety function	yes
Functionality	
Programming languages supported	Symbolic flowchart (SFC)
	Ladder diagram (LD)
	Function block diagram (FBD)
	Structured text (ST)
	C++
	C#
	Java
	Python

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stem requirements	
Engineering tool	PLCnext Engineer
	Eclipse
	Visual Studio
	MATLAB [®] Simulink [®]
Application interface	OPC UA
ctrical properties	
Power consumption	typ. 25 W (Without fan module)
	max. 35 W (With fan module)
Maximum power dissipation for nominal condition	max. 24 W
upply	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including ripple (3.6 $\mathrm{V}_{\mathrm{PP}}))$
Power supply connection	Screw terminal blocks, plug-in
Typical current consumption	1 A
eal-time clock	
Realtime clock	integrated (capacitive buffering)
Description realtime clock	1.73 s/day = 20 ppm at 25 °C

Connection data

COMBICON connector		
Conductor cross section, rigid	0.2 mm ² 2.5 mm ²	
Conductor cross section, flexible	0.2 mm ² 2.5 mm ²	
Conductor cross section AWG	24 12	
Interfaces		
Web server	yes	
USB		
Number of interfaces	1	
Connection method	USB type A, male connector	
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)	

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External dimensions	
Width / Height / Depth	122 mm / 182 mm / 173 mm (without fan module)
	122 mm / 220 mm / 173 mm (With fan module)
naracteristics	
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
Ambient conditions	
Ambient conditions	
Ambient conditions Degree of protection	IP20 (Manufacturers declaration, not evaluated by UL)
	 IP20 (Manufacturers declaration, not evaluated by UL) 0 °C 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)
Degree of protection	0 °C 60 °C up to 2000 m above mean sea level (from 40 °C
Degree of protection	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)
Degree of protection	 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)
Degree of protection 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)
Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport)	 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) -25 °C 70 °C
Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (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 fai module only) 0 °C 50 °C 3000 m 4000 m above mean sea level (With fai module only) -25 °C 70 °C 10 % 95 % (non-condensing)
Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport)	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) 0 °C 50 °C 3000 m 4000 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) -25 °C 70 °C 10 % 95 % (non-condensing) 5 % 95 % (non-condensing)
Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport) Shock (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 far module only) 0 °C 50 °C 3000 m 4000 m above mean sea level (With far module only) -25 °C 70 °C 10 % 95 % (non-condensing) 5 % 95 % (non-condensing) 20g (in accordance with EN 60068-2-27/IEC 60068-2-27)
Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport) Shock (operation) Shock (storage/transport)	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) 0 °C 50 °C 3000 m 4000 m above mean sea level (With fan module only) -25 °C 70 °C 10 % 95 % (non-condensing) 5 % 95 % (non-condensing) 20g (in accordance with EN 60068-2-27/IEC 60068-2-27) 20g (in accordance with EN 60068-2-27/IEC 60068-2-27)
Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport) Shock (operation) Shock (storage/transport) Vibration (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 far module only) 0 °C 50 °C 3000 m 4000 m above mean sea level (With far module only) -25 °C 70 °C 10 % 95 % (non-condensing) 5 % 95 % (non-condensing) 20g (in accordance with EN 60068-2-27/IEC 60068-2-27) 20g (in accordance with EN 60068-2-6/IEC 60068-2-6)
Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport) Shock (operation) Shock (storage/transport) Vibration (operation) Vibration (storage/transport)	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 far module only) 0 °C 50 °C 3000 m 4000 m above mean sea level (With far module only) 0 °C 50 °C 3000 m 4000 m above mean sea level (With far module only) -25 °C 70 °C 10 % 95 % (non-condensing) 5 % 95 % (non-condensing) 20g (in accordance with EN 60068-2-27/IEC 60068-2-27) 20g (in accordance with EN 60068-2-6/IEC 60068-2-6) 1g (in accordance with EN 60068-2-6/IEC 60068-2-6) 1g (in accordance with EN 60068-2-6/IEC 60068-2-6)

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 61000-6-2

 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 61000-6-2

 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

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	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 Test voltage 10 V
	Noise emission test in accordance with EN 61000-6- 4/IEC 61000-6-4
lectromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Mounting

Mounting type

DIN rail mounting

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Approvals

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	UL Listed Approval ID: FILE E 238705
•	CUL Listed Approval ID: FILE E 238705
	PROFINET ,pproval ID: Z13529
ERC	EAC Approval ID: RU*DE*08.B.00529/19
ERC	EAC Approval ID: RU*DE*08.B.00529/19
•	CUL Listed Approval ID: FILE E 238705
	UL Listed Approval ID: FILE E 238705
	PROFINET .pproval ID: Z13530

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Classifications

ECLASS

ECLASS-11.0	27242207
ECLASS-12.0	27242207
ECLASS-13.0	27242207

ETIM

	ETIM 8.0	EC000236	
UN	UNSPSC		
	UNSPSC 21.0	32151700	



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

SD FLASH 8GB PLCNEXT MEMORY - Program / configuration memory

1061701

https://www.phoenixcontact.com/us/products/1061701



Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 8 GB.

SD FLASH 2GB PLCNEXT MEMORY - Program / configuration memory

1043501

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Program and configuration memory for storing the application programs and other files in the file system of the PLC, plug-in, 2 GB.

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PLCNEXT ENGINEER - Programming software

1046008

https://www.phoenixcontact.com/us/products/1046008



Engineering software platform for Phoenix Contact automation controllers. PLCnext Engineer is IEC 61131-3-compliant and is available free of charge under Downloads. Its functionality can be extended using paid add-ins. To do this, open the license configurator via the "Configure" button.

RFC FAN MODULE - Fan

2404085

https://www.phoenixcontact.com/us/products/2404085



Fan module for the RFC 480S PN 4TX and RFC 4072S Remote Field Controllers.

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