1051328

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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
- 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
Catalog page	Page 11 (C-6-2019)
GTIN	4055626673400
Weight per piece (including packing)	3,257 g
Weight per piece (excluding packing)	2,000 g
Customs tariff number	85371091
Country of origin	DE

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## Technical data

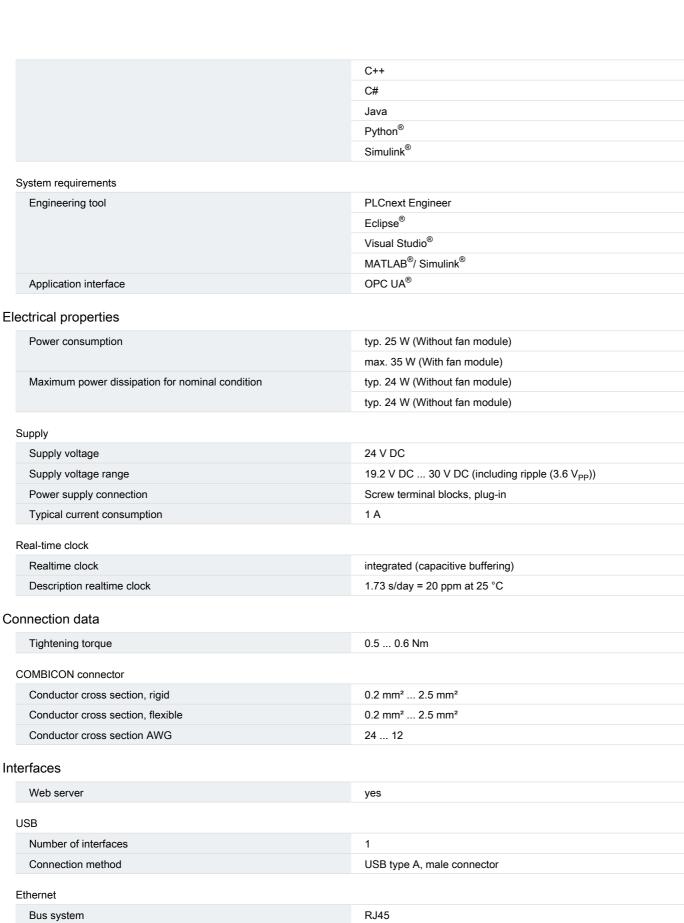
### Product properties

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
/stem properties	
Processor	Intel <sup>®</sup> Core ™ i5-6300U 2x 2.4 GHz (Standard)
	Arm <sup>®</sup> Cortex <sup>®</sup> -A9, 800 MHz (CPU1)
	Arm <sup>®</sup> Cortex <sup>®</sup> -A8, 600 MHz (CPU2)
Trusted Platform Module	TPM 1.2
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
Supported functions	Topology detection
	Automatic device replacement
	Parameterizable alarm and startup behavior
Vendor ID	00B0 <sub>hex</sub> / 176 <sub>dez</sub>
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)



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Number of interfaces



4

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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)
imensions	
External dimensions	
Width / Height / Depth	122 mm / 182 mm / 173 mm (without fan module)
	122 mm / 220 mm / 173 mm (With fan module)
aterial specifications	
Color	gray (RAL 7042)
haracteristics	
Safety data: EN ISO 13849	may 1
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
	max. 3
Safety Integrity Level Claim Limit (SIL CL)	max. 3
	max. 3
nvironmental and real-life conditions	max. 3 IP20 (Manufacturers declaration, not evaluated by UL)
nvironmental and real-life conditions	
nvironmental and real-life conditions Ambient conditions Degree of protection	IP20 (Manufacturers declaration, not evaluated by UL) 0 °C 60 °C up to 2000 m above mean sea level (from 40 °C
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nvironmental and real-life conditions Ambient conditions Degree of protection	<ul> <li>IP20 (Manufacturers declaration, not evaluated by UL)</li> <li>0 °C 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)</li> <li>0 °C 55 °C 2000 m 3000 m above mean sea level (With far module only)</li> <li>0 °C 50 °C 3000 m 4000 m above mean sea level (With far module far module only)</li> </ul>
Ambient conditions Ambient conditions Degree of protection Ambient temperature (operation)	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)         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)
Ambient conditions          Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)	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)         0 °C 55 °C 2000 m 3000 m above mean sea level (With fa module only)         0 °C 50 °C 3000 m 4000 m above mean sea level (With fa module only)         -25 °C 70 °C
Ambient conditions          Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (operation)	<ul> <li>IP20 (Manufacturers declaration, not evaluated by UL)</li> <li>0 °C 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)</li> <li>0 °C 55 °C 2000 m 3000 m above mean sea level (With fa module only)</li> <li>0 °C 50 °C 3000 m 4000 m above mean sea level (With fa module only)</li> <li>-25 °C 70 °C</li> <li>10 % 95 % (non-condensing)</li> </ul>
Ambient conditions          Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (operation)         Permissible humidity (storage/transport)	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)         0 °C 55 °C 2000 m 3000 m above mean sea level (With fa module only)         0 °C 50 °C 3000 m 4000 m above mean sea level (With fa module only)         -25 °C 70 °C         10 % 95 % (non-condensing)         5 % 95 % (non-condensing)
Ambient conditions          Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (operation)         Permissible humidity (storage/transport)         Shock (operation)	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)         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)
Ambient conditions          Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (operation)         Permissible humidity (storage/transport)         Shock (operation)         Shock (storage/transport)	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)         0 °C 55 °C 2000 m 3000 m above mean sea level (With fa module only)         0 °C 50 °C 3000 m 4000 m above mean sea level (With fa module only)         0 °C 50 °C 3000 m 4000 m above mean sea level (With fa 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)
Ambient conditions          Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (operation)         Permissible humidity (storage/transport)         Shock (operation)         Shock (storage/transport)         Vibration (operation)	<ul> <li>IP20 (Manufacturers declaration, not evaluated by UL)</li> <li>0 °C 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)</li> <li>0 °C 55 °C 2000 m 3000 m above mean sea level (With fa module only)</li> <li>0 °C 50 °C 3000 m 4000 m above mean sea level (With fa module only)</li> <li>-25 °C 70 °C</li> <li>10 % 95 % (non-condensing)</li> <li>5 % 95 % (non-condensing)</li> <li>20g (in accordance with EN 60068-2-27/IEC 60068-2-27)</li> <li>20g (in accordance with EN 60068-2-27/IEC 60068-2-27)</li> <li>1g (in accordance with EN 60068-2-6/IEC 60068-2-6)</li> </ul>
Ambient conditions          Ambient conditions         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)	<ul> <li>IP20 (Manufacturers declaration, not evaluated by UL)</li> <li>0 °C 60 °C up to 2000 m above mean sea level (from 40 °C only with fan module)</li> <li>0 °C 55 °C 2000 m 3000 m above mean sea level (With fa module only)</li> <li>0 °C 50 °C 3000 m 4000 m above mean sea level (With fa module only)</li> <li>-25 °C 70 °C</li> <li>10 % 95 % (non-condensing)</li> <li>5 % 95 % (non-condensing)</li> <li>20g (in accordance with EN 60068-2-27/IEC 60068-2-27)</li> <li>20g (in accordance with EN 60068-2-6/IEC 60068-2-6)</li> <li>1g (in accordance with EN 60068-2-6/IEC 60068-2-6)</li> </ul>

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### 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 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, Test voltage 10 V
	Noise emission test in accordance with EN 61000-6- 4/IEC 61000-6-4
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
ounting	
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 Approval ID: Z13529	
EAC Approval ID: RU*DE*08.B.00529/19	
PROFINET Approval ID: Z13530	
TÜV SÜD Type tested         Approval ID: IITS2 029429 0027	
Approval ID: 01/205/5649.01/23	
PROFIsafe Approval ID: Z20352	
PROFIsafe Approval ID: Z20353	
cULus Listed	

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## Classifications

### ECLASS

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

### ETIM

	ETIM 9.0	EC000236
UN	UNSPSC	
	UNSPSC 21.0	32151700

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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	1a5f8f12-b6b0-49c6-a37e-9530122266de

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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

https://www.phoenixcontact.com/us/products/1043501



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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## PLCNEXT TECHNOLOGY TOOLCHAIN - Programming software

### 1639782

https://www.phoenixcontact.com/us/products/1639782



The PLCnext Technology tool chain is required to develop real-time and nonreal-time applications in C++ and C# for PLCnext controllers. The PLCnext CLI command line tool is a core component in the tool chain and can be used to create metadata, C++ header files, and PLCnext Engineer libraries, as well as for the build process. There is also an add-in for Eclipse® and an extension for Microsoft Visual Studio®. This extends the user interfaces of these development environments to support the development process for PLCnext Technology.

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