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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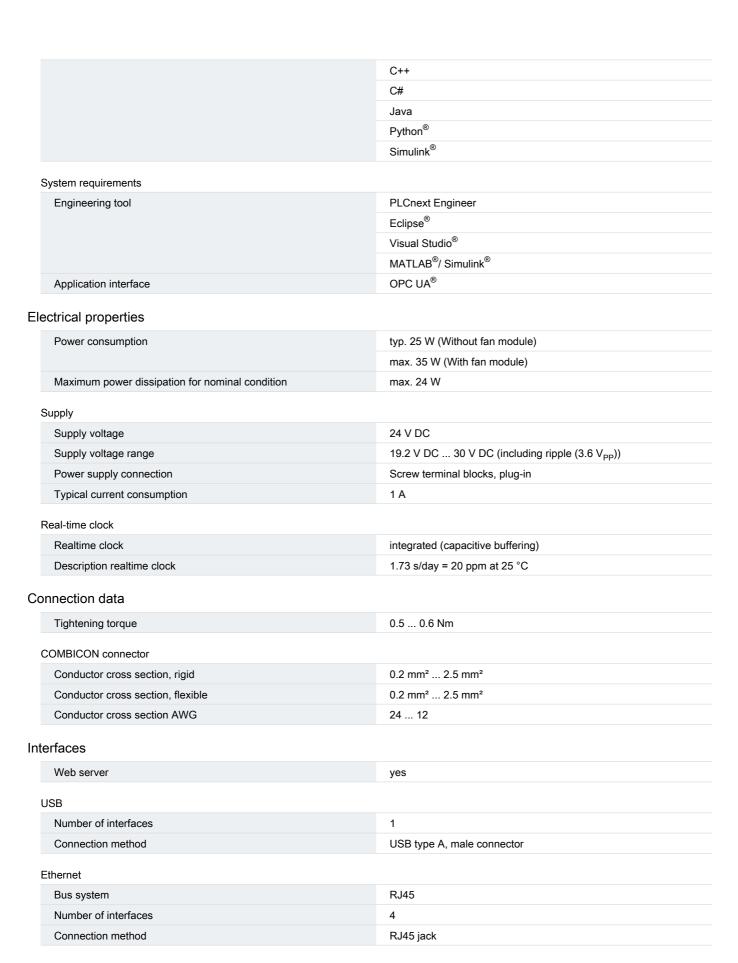
## Technical data

#### Product properties

Туре	Stand-Alone
Product type	Controller
Product family	PLCnext Control
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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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)
nensions	
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)
aracteristics	
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
Sofaty data: EN IEC 62064	
Safety data: EN IEC 62061	
Safety Integrity Level Claim Limit (SIL CL)	max. 3
•	max. 3
Safety Integrity Level Claim Limit (SIL CL)	IP20 (Manufacturers declaration, not evaluated by UL)
Safety Integrity Level Claim Limit (SIL CL)	
Safety Integrity Level Claim Limit (SIL CL) Invironmental 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> </ul>
Safety Integrity Level Claim Limit (SIL CL) Invironmental 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 fat</li> </ul>
Safety Integrity Level Claim Limit (SIL CL) Invironmental 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 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)
Safety Integrity Level Claim Limit (SIL CL) Avironmental and real-life 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)
Safety Integrity Level Claim Limit (SIL CL)  Avironmental and real-life 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 fai module only)         0 °C 50 °C 3000 m 4000 m above mean sea level (With fai module only)         -25 °C 70 °C
Safety Integrity Level Claim Limit (SIL CL)         Avironmental and real-life conditions         Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (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 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)
Safety Integrity Level Claim Limit (SIL CL)         Auvironmental and real-life conditions         Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (operation)         Permissible humidity (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> </ul>
Safety Integrity Level Claim Limit (SIL CL)         Avironmental and real-life conditions         Ambient conditions         Degree of protection         Ambient temperature (operation)         Ambient temperature (storage/transport)         Permissible humidity (operation)         Permissible humidity (storage/transport)         Shock (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> </ul>
Safety Integrity Level Claim Limit (SIL CL)         Auvironmental and real-life 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)
Safety Integrity Level Claim Limit (SIL CL)         Avironmental and real-life 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>
Safety Integrity Level Claim Limit (SIL CL)         Avironmental and real-life 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>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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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
	Conformance with EMC Directive 2014/30/EU

Mounting type

DIN rail mounting

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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

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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