1051328

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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

- · Real-time-capable Linux operating system for deterministic and reliable execution of time-critical processes
- Supports numerous protocols such as: HTTP, HTTPS, FTP, OPC UA, SNTP, SNMP, SMTP, SQL, MySQL, DCP, etc. for smooth communication with IT systems
- · Direct connection to the Proficloud, the PLCnext Store and any cloud platforms for seamless IoT integration of your applications
- Support for numerous fieldbus protocols (PROFINET, Modbus TCP/RTU, Ethernet/IP, etc.) for easy integration into existing automation technology systems and installations
- · Maximum design freedom thanks to the combination of classic PLC programming with modern high-level languages such as C++, C#, or Python
- · Meets the highest security requirements of industrial automation for the protection of your applications and data

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



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Technical data

Notes

Note on application	Only for industrial use
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oduct 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 degre of protection or higher)
Display	
Diagnostics display	yes
stem properties	
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 _{hex} / 176 _{dez}
Function	
Diagnostics display	yes
Redundancy function	no
Safety function	yes
Functionality	
Programming languages supported	Symbolic flowchart (SFC)
and a second sec	Ladder diagram (LD)
	Function block diagram (FBD)



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	Structured text (ST)
	C++
	C#
	Java
	Python®
	Simulink®
System requirements	
Engineering tool	PLCnext Engineer
	Eclipse®
	Visual Studio®
	MATLAB®/ Simulink®
Application interface	OPC UA®
ectrical properties	
Power consumption	typ. 25 W (Without fan module)
	max. 35 W (With fan module)
Maximum power dissipation for nominal condition	max. 35 W (With fan module)
	typ. 25 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 mm ² 2.5 mm ²
Conductor cross-section, flexible	0.2 mm ² 2.5 mm ²
Conductor cross-section AWG	24 12
rerfaces	
Web server	yes
USB	
Number of interfaces	1
Connection method	USB type A, male connector
Ethernet	



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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

Characteristics

Safety data: EN ISO 13849

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)		
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.	Use of the device in these ambient conditions is prohibited.		



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IC 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 Test voltage 10 V
	Noise emission test in accordance with EN 61000-6-4/IEC 61000-6-4
ounting	
Mounting type	DIN rail mounting



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PROFINET

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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



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cULus Listed

Approval ID: E238705



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Approval ID: E238705



Functional Safety

Approval ID: 01/205/5649.01/23



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-13.0	27242207
ECLASS-15.0	27242207
ECLASS-15.0 ASSET	27250101
ETIM	
ETIM 9.0	EC000236
UNSPSC	

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Environmental product compliance

EU RoHS

Yes (%) 7(%) 1
6(c), 7(a), 7(c)-I
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.
Lead(CAS: 7439-92-1)
1a5f8f12-b6b0-49c6-a37e-9530122266de
263.2 kg CO2e

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