

# Controller - RFC 4072R



1136419

<https://www.phoenixcontact.com/gb/products/1136419>

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.

High-availability PLCnext controller with redundancy functionality



## Product Description

High-availability PLCnext controller for PROFINET networks with S2 system redundancy functionality.

When it comes to high-availability, distributed, and modular automation, PLCnext controllers with IEC 61131 control intelligence, redundancy technology, and network connection are the ideal solution. Thanks to the integrated FO-based redundancy function, you can reduce system downtimes, work cost-effectively, and also avoid potential hazards. Virtual IP technology enables the easy and convenient connection of SCADA systems. The integrated OPC UA server/client function enables a cascaded topology of redundancy levels.

## Your advantages

- Fast startup and automatic configuration of all redundancy functions, thanks to AutoSync technology
- Uninterrupted process in the event of failure or when a controller is replaced
- Integrated PROFINET controller and PROFINET device
- System networking M2M with OPC UA
- A distance of up to 10 km between the controllers via fiber optics; cost-optimized thanks to plug-in SFP modules
- Automatic switch-over of the visualization by using virtual IP technology
- High-resolution display for displaying status and error messages in plain text
- PROFINET standards ensure optimum device integration and S2 redundancy for your future-proof Ethernet network

## Commercial Data

Item number	1136419
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRADBA
Product Key	DRADBA
GTIN	4063151072230
Weight per Piece (including packing)	3,062 g
Weight per Piece (excluding packing)	2,000 g
Customs tariff number	85371091
Country of origin	DE

# Controller - RFC 4072R



1136419

<https://www.phoenixcontact.com/gb/products/1136419>

## Technical Data

### Product properties

Type	Stand-Alone
Product type	Controller

### Insulation characteristics

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
------------------	---------------------------------------

### Display

Diagnostics display	yes
---------------------	-----

### Electrical properties

Power consumption	typ. 25 W (Without fan module)
	max. 35 W (With fan module)
Transmission medium	Copper
	FO

### Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including ripple (3.6 V <sub>PP</sub> ))
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm <sup>2</sup>

### Real-time clock

Realtime clock	integrated (capacitive buffering)
Description realtime clock	1.73 s/day = 20 ppm at 25 °C

### Potentials

Protective circuit	Surge protection of the supply voltage; electronic
	Polarity reversal protection of the supply voltage; electronic

### Connection data

#### COMBICON connector

Conductor cross section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Interfaces

Web server	yes
------------	-----

#### USB

Number of interfaces	1
Connection method	USB type A, socket

#### Ethernet

Bus system	RJ45
------------	------

# Controller - RFC 4072R



1136419

<https://www.phoenixcontact.com/gb/products/1136419>

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)

## System properties

Processor	Intel® Core™ i5-6300U 2x 2.4 GHz (Standard)
Flash memory	100 Mbyte (internal flash memory) SD card from Phoenix Contact (for external flash memory, see accessories)
Retentive data storage	2 Mbyte

### IEC 61131 runtime system

Program memory	16 Mbyte
Data storage	32 Mbyte

### PROFINET

Device function	PROFINET-Controller
Number of supported devices	max. 256

### Function

Diagnostics display	yes
Controller redundancy	yes
Safety function	No

## Software

### Functionality

Programming languages supported	Instruction list (IL)
	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

# Controller - RFC 4072R



1136419

<https://www.phoenixcontact.com/gb/products/1136419>

	OPC UA Pub/Sub
--	----------------

## Dimensions

### External dimensions

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C up to 2000 m above mean sea level (recommended: above 50°C with fan module)
	0 °C ... 55 °C 2000 m to 3000 m above mean sea level (With fan module only)
	0 °C ... 50 °C 3000 m to 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)
Vibration (operation)	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. with DIN 40046-36, DIN 40046-37	Use of the device in these ambient conditions is prohibited.

## 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 fields EN 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 interference EN 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

## Mounting

Mounting type	DIN rail mounting
---------------	-------------------

# Controller - RFC 4072R

1136419

<https://www.phoenixcontact.com/gb/products/1136419>

## Classifications

### ECLASS

ECLASS-9.0	27242207
ECLASS-10.0.1	27242207
ECLASS-11.0	27242207

### ETIM

ETIM 8.0	EC000236
----------	----------

### UNSPSC

UNSPSC 21.0	32151700
-------------	----------

# Controller - RFC 4072R

1136419

<https://www.phoenixcontact.com/gb/products/1136419>

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2022 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)



**SCATTERGOOD  
& JOHNSON LTD**  
ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

Est.1899

At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product manufacturers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

**[www.scatts.co.uk](http://www.scatts.co.uk)**