2700784

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High-availability Remote Field Controller with redundancy function, 3 x 10/100 Ethernet, PROFINET controller, IP20 protection, plug-in parameterization memory

## Product description

High-availability Remote Field Controller for PROFINET networks

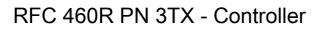
When it comes to high-availability, distributed, and modular automation, Remote Field Controllers (RFCs) with IEC 61131 control intelligence, redundancy technology, and network connection are the ideal solution. Thanks to the integrated fiber optic-based redundancy function, you can reduce system downtimes, work cost-effectively, and also avoid potential hazards, e.g., in tunnels or at airports.

## Your advantages

- The RFC 460R PN 3TX features:
- · 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
- Optimum device integration, thanks to PROFINET standards; redundancy for your future-proof Ethernet network
- · High-resolution display for displaying status and error messages in plain text
- · Uninterrupted visualization thanks to redundancy-capable OPC server
- · A distance of up to 80 km between the controllers via fiber optics; cost-optimized thanks to plug-in SFP modules

# Commercial data

Item number	2700784
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR10
Product key	DRAABA
Catalog page	Page 53 (C-6-2019)
GTIN	4046356640589
Weight per piece (including packing)	2,100 g
Weight per piece (excluding packing)	1,870 g
Customs tariff number	85371091
Country of origin	DE



2700784

https://www.phoenixcontact.com/us/products/2700784



## Technical data

### Notes

Note on application	
Note on application	Only for industrial use
roduct properties	
Product type	Controller
Product family	Remote Field Controller
Туре	Stand-Alone
Data management status	
Article revision	19
Insulation characteristics	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Display	
Diagnostics display	yes
ystem properties	
Processor	Intel®Celeron® 927 UE 1.5 GHz
Retentive data storage	120 kByte (NVRAM)
IEC 61131 runtime system	
Program memory	typ. 8 Mbyte
Data storage system	16 Mbyte
Number of control tasks	1
PROFINET	
Device function	PROFINET-Controller
Specification	Version 1.1
Update rate	min. 1 ms
Function	
Diagnostics display	yes
Controller redundancy	yes
Safety function	no
Functionality	
Programming languages supported	Instruction list (IL)
	Symbolic flowchart (SFC)
	Ladder diagram (LD)
	Function block diagram (FBD)
	Structured text (ST)





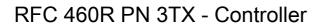
2700784

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Engineering tool	PC Worx
Diagnostics tool	DIAG+, version 2.00 or higher
Application interface	Device driver interface via TCP/IP sockets
ectrical properties	
Maximum power dissipation for nominal condition	typ. 24 W (Without fan module)
Transmission medium	Copper
Maximum power dissipation for nominal condition	typ. 24 W (Without fan module)
Supply	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including ripple)
Power supply connection	Screw terminal blocks, plug-in
Typical current consumption	1 A
Real-time clock	
Realtime clock	Integrated (battery backup)
nnection data	
Connection method	without
erfaces	
Web server	no
Ethernet	
Bus system	RJ45
Number of interfaces	3
Connection method	RJ45 jack
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Synchronization interface	
Number of interfaces	1
Connection method	SFP
Transmission speed	1 Gbps
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used
JSB 2.0	
JSB 2.0 Number of interfaces	2

## Dimensions

External dimensions	
Width / Height / Depth	124 mm / 185 mm / 190 mm (without fan module)



#### 2700784

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### Material specifications

anthracite grey (RAL 7016)

## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	0 °C 55 °C (from 45°C only with fan module)
Ambient temperature (storage/transport)	-25 °C 70 °C
Permissible humidity (operation)	5 % 90 % (non-condensing)
Permissible humidity (storage/transport)	5 % 90 % (non-condensing)
Shock	25g, Criterion 1, according to IEC 60068-2-27
Vibration (operation)	1g, Criterion 1, according to IEC 60068-2-6
Air pressure (operation)	80 kPa 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	66 kPa 108 kPa (up to 3000 m above sea level)

#### Mounting

Mounting type

DIN rail mounting

2700784

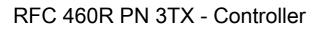
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## Approvals

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ERC	EAC Approval ID: RU*DE*08.B.00529/19
<b>@</b>	UL Listed Approval ID: E140324
<u>.</u>	CUL Listed Approval ID: E140324
c	ULus 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

2700784

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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 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	e26c3b55-47e1-45ef-8674-88e83dffae13

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