



● Ethernet Switch ● Passive cooled CPU unit
● Universal design

Specification		
Processor		Cortex-A9, Single Core, 800 MHz
	optional	Cortex-A9, Dual Core, 800 MHz
Real-time clock		available, with goldcap buffered up to 4 weeks
Memory		1 GByte RAM, 4 GByte Flash
Memory expansion		via USB-Stick on the USB-Host interface
Memory expansion via μSD-card-socket	optional	with μSD card (max. 2 GB) or μSDHC card (max. 32 GB)
Speed class:		recommended: class 2 with 2 MB/s minimum speed
Buffering		1 MByte retain data in flash
Software		
Operating system		Embedded Linux 4.00
PLC programming		CODESYS V3 (CS3)
HMI programming		CODESYS V3 WebVisu (WV)
Interface		
Ethernet		1 x 100/100BASE-T, RJ45 3 x 10/100BASE-T, RJ45 with switch functionality
	optional	1 x 100/1000BASE-T, RJ45 1 x 10/100BASE-T, RJ45 2 x 10/100BASE-T, RJ45 with Profinet functionality
Serial interfaces		1 x D-Sub-9 plug (male) with multiple function: 1 x RS232 with galv. isolation, 2 x RS485 with galv. isolation, termination ON-OFF 1 x RS485 with galv. Isolation, D-Sub-9 socket (female); termination ON-OFF
Fieldbus interfaces		2 x CAN acc. ISO11898 with galv. isolation, 2x RJ45, 2 x termination ON-OFF
USB		2 x USB-2.0 hub device type A
NFC	optional	Short range wireless connectivity (smartphone)

Functions	
Operating mode switch	RUN-STOP-RESET
Profinet-RT Controller	Via CODESYS configurator
Profinet-RT Device	Via FPGA IP /IEC library
CANopen Master	Via IEC- library or CODESYS configurator
CANopen Slave	Via CODESYS configurator
Ethernet TCP-Modbus Client or Server	Via IEC- library
Modbus RTU Slave or Master	Via IEC- library
Order-No.:	
25150.0100	robusto master - RMC501
Environment/ mechanical values	
Supply voltage	24 VDC (-15% / +20%) SELV with polarity reversal
Power consumption (duration/start-up)	0,8 A / 1,0 A
Housing	robusto heat sink with device lid
Protection class	IP20, acc. EN 60529
Mounting	snap-in mounting on top-hat rail DIN EN 60715
Outside dimensions in mm (w x h x d)	approx. 176 x 160 x 46
Weight app.	1200 g
Operating temperature	0°C...50°C (depending on position)
Storage temperature	-20°C... 70°C
Relative humidity for operation	10%...85% non-condensing
Relative humidity for storage	5%...85% non-condensing
Cooling	Passive heat sink
Diagnostic	
LED's	LEDs for operating- and status indication; LED status for digital in- and outputs
Digital Inputs	
Number	32
Input voltage	24 VDC with galvanic isolation, EN61131-2 Typ 1
Frequency max.	1 kHz
Connection	4 x socket 10-pole; contact spacing 3,5 mm, conductor crosssection up to 0,2 ... 1,5 mm ² , depending on the installation situation (see data sheet WAGO) 8 A WAGO: 714-110 and 714-140
Digital Outputs	
Number	32
Output voltage	24 VDC with galvanic isolation
Output current	0,5 A
Total current (per DIN)	Current per group (8 outputs) max. 2 A
Ohmic load	At least 50 Ohm
Switching frequency Ohm/inductive	1 kHz
Short circuit	Current limiting up to 0,7 A per channel
Thermal Protection	Thermal protection of 120°C ; reconnecting of 100°C. additionally protection per group with a fuse of 5 A.
Connection	4 x socket 10-pole; contact spacing 3,5 mm, conductor crosssection up to 0,2 ... 1,5 mm ² , depending on the installation situation (see data sheet WAGO) 8 A WAGO: 714-110 and 714-140

Standards	
Produktnorm	EN61131-2:2007
Störfestigkeit / Störaussendung	EN61000-6-2:2011 EN61000-6-3:2011
Umweltprüfungen	EN60068-2-6 EN60068-2-27
Accessory	
	Memory expansion with μ SD-card Retain data 1 MByte

© 2017 elrest Automationssysteme GmbH. All rights reserved.

The information contained in this document is subject to change without notice and do not constitute any obligation on the part of elrest Automationssysteme GmbH. The software and / or databases described in this document, are provided under a license agreement and a secrecy agreement. The software and / or databases may only be used or copied in accordance with the terms of the agreement. It is unlawful to copy the software to another medium, as far as this is not expressly permitted in the license or secrecy agreement. Without the express written permission of elrest Automationssysteme GmbH neither this manual nor parts thereof may be used for any purpose, in any form by any means, electronically or mechanically, reproduced or transmitted by photocopy or recording.

Illustrations and descriptions as well as dimensions and technical data correspond to the circumstances or intentions at the time of the printing of this brochure. We reserve the right to make changes of any kind, in particular as far as they result from technical progress, economic execution or similar. The external connection of the devices is carried out by the user.

Do you have questions, requests or suggestions?

You can in-depth comprehensive information about elrest on our website: www.elrest.de

Your direct line to elrest: +49 (0) 7021-92025-0

or contact us at: vertrieb@elrest.de



E601311-1.7

elrest Automationssysteme GmbH • Leibnizstraße 10 • D-73230 Kirchheim unter Teck
Tel: +49 (0) 7021-92025-0 • Fax: +49 (0) 7021-92025-29 • vertrieb@elrest.de • www.elrest.de

Illustrations and descriptions as well as dimensions and technical data correspond to the circumstances or intentions at the time of this brochure. Changes of any kind, in particular as far as they result from technical progress, economic performance or shall remain reserved.

