



● Ethernet Switch ● Passive cooled CPU unit
● Universal design

Specification	
Processor	Cortex-A9, Single Core, 800 MHz
Real-time clock	available, with goldcap buffered up to 4 weeks
Memory	1 GByte RAM, 4 GByte Flash, (2 Gbyte Flash available, data endurance: 100.000 erase and write cycles, data retention: 10 years)
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	512 KByte 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 100/1000BASE-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, 1 x RS485 with galv. isolation, termination ON-OFF 1 x RS485 with galv. Isolation, D-Sub-9 socket (male); termination ON-OFF
Fieldbus interfaces	2 x CAN acc. to ISO11898 with galv. isolation, 2x RJ45, 2 x termination ON-OFF
USB	2 x USB-2.0 hub device type A

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. to EN 60529
Mounting	snap-in mounting on top-hat rail DIN EN 60715
Outside dimensions in mm (w x h x d)	176 x 160 x 50,8
Weight approx.	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	
LEDs	LEDs for operating- and status indication; LED status for digital in- and outputs
Digital Inputs	
Number	32 in 4 blocks à 8 inputs
Input voltage	24 VDC with blockwise 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 , 8 A WAGO: 714-110 and 714-140
Digital Outputs	
Number	32 in 4 blocks à 8 outputs
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 by ohmic/inductive load	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 , 8 A WAGO: 714-110 and 714-140

Standards	
Product standards	EN61131-2:2007
Immunity and interference	EN61000-6-2:2011 EN61000-6-3:2011

© 2018 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



E601311-2.0

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.

