

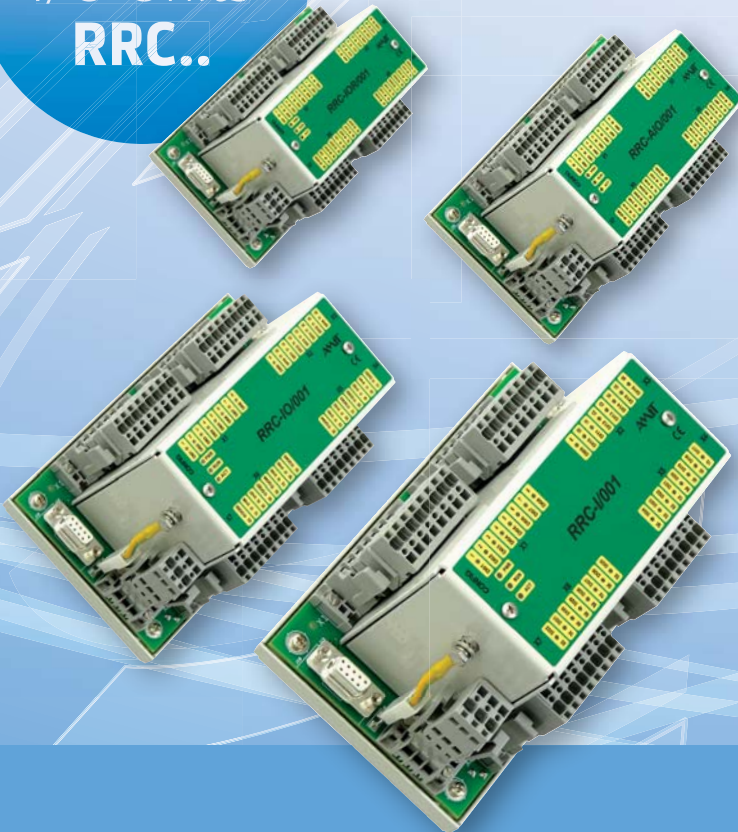
Distributed Train Control System

Electronics
for Rolling Stock
and Public Transport

Vehicle
Control Units
RRCPU..



Remote
I/O Units
RRC..



- Distributed train control system
- CANopen DS 401 communication protocol
- Concatenated CAN
- Geographical configuration of the node
- Operational software with redundant CAN communication
- Powerful development tool TrolStudio
- Wide operating temperature range
-40 °C to 70 °C
- 24 V DC or 48 V DC power supply
- EN 50155 compliant

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Vehicle Control Units




RRCPU-4/90x



RRCPU-8/A4x

CPU	Dual CPU (process + communication)	
Processing FLASH memory	1 MB	2 MB
Archive FLASH memory	64 MB	
RTC	Yes	
Back-up battery	RAM + RTC	
Inputs	8 × DI 24 V DC + 1 × AI (4 mA to 20 mA)	3 × DI 24 V DC + 1 × AI (4 mA to 20 mA)
Outputs	3 × DO 24 V DC / 4 A (MOS)	1 × RDO 24 V DC / 4 A, Switching contact
CAN	4 ×	8 ×
Ethernet	10 / 100 Mbps (RJ45)	
Power supply	24 V DC	
Cover protection rate	IP30 (with exception of SD card slot)	
Operating temperature range	-40 °C to 70 °C	
Mounting	35 mm DIN rail	
Weight	1.40 kg	1.65 kg
Dimensions (w × h × d)	(211 × 111 × 100) mm	(273 × 111 × 100) mm
Standards	EN 50155, EN 50121-3-2, EN 61373, EN 60068-2-1, EN 60068-2-2, EN 60068-2-30	

Remote I/O Units common parameters

CAN interface	1 ×	RRC-xx 
Communication speed	250 / 500 / 1000 kbit	
Communication protocol	CANopen DS 401	
Power supply	24 V DC / 48 V DC	
Cover protection rate	IP30	
Operating temperature range	-40 °C to +70 °C	
Mounting	35 mm DIN rail	
Weight	1.25 kg	
Dimensions (w × h × d)	(170 × 100 × 108) mm	
Standards	EN 50155, EN 50121-3-2, EN 61373, EN 60068-2-1, EN 60068-2-2	

Remote I/O Units specific parameters

Type	DI	DO	RDO	AI	AO	Vcc
RRC-I/001	32	-	-	-	-	24 V DC
RRC-I/005	32	-	-	-	-	48 V DC
RRC-IO/001	16	8	-	-	-	24 V DC
RRC-AIO/001	12	6	-	4 (4 mA to 20 mA)	-	24 V DC
RRC-AIO/201	12	6	-	4 (0 V to 15 V)	-	24 V DC
RRC-IOR/001	12	7	2	-	-	24 V DC
RRC-O/001	-	16	-	-	-	24 V DC
RRC-O/005	-	16	-	-	-	48 V DC
RRC-ION/001	12	8	-	-	4 (4 mA to 20 mA)	24 V DC

- Vehicle control units with distributed I/O for control of vital or non-vital parts of rolling stock (TCMS, CCTV, PIS applications)
- Rugged and temperature-durable control system for rolling stock applications

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