

DATASHEET





The CAN repeater CAN-CR100 with integrated bus termination resistors and two CAN/CAN FD interfaces can be used to improve the load capacity of the CAN bus with nodes, physical coupling of CAN/CAN FD bus systems or to insert a galvanic isolation.

It creates the necessary flexibility to optimize the structure of CAN/CAN FD networks and to free CAN networks from the restriction to the bus structure. Integrated bus termination resistors prevent reflections on the line ends and ensure optimum communication.

The CAN-CR100 separates a defective segment from the rest of the network, allowing the remaining network to continue working.

FEATURES AND BENEFITS

- CAN and CAN FD interfaces in one device
- Cost savings due to simple wiring
- Almost no influence on real-time behavior
- Greater flexibility in CAN network design
- Separates a defective segment, allowing the remaining network to continue working
- Increased system reliability
- 2 x CAN/CAN FD channels
- Galvanic isolation
- With bus termination resistors

ORDER NUMBER	1.01.0210.20000	
Display	2 x CAN status LED (duo LED for communication and errors), Power LED	
CAN channels (high speed)	2	
CAN FD / CAN channels	2	
CAN bus interface	ISO 11898-2 with CAN choke, 2 x screw terminals	
CAN bit rates	Up to 1 Mbit/s	
CAN FD bus interface	ISO CAN FD and nonISO CAN FD	
CAN FD bit rates	Arbitration rate: up to 1000 kbit/s, data rate: up to 8000 kbit/s (verified by testing). User defined bit rates are possible.	
CAN bus termination resistors	120 Ohm switchable via DIP switch	



ORDER NUMBER	1.01.0210.20000	
CAN/CAN FD transceiver	MCP2562FD	
Galvanic isolation	1 kV DC / 1 sec, 500 V AC /1 min; CAN 1, CAN 2 and power supply are galvanic isolated against each other	
CAN propagation delay (typical)	Typ. 175 ns (35 m bus length)	
Power supply	+9 V to +36 V DC	
Power consumption at 24 V	Typ. 70 mA, max. 100 mA	
Operating temperature	-20 °C to +70 °C	
Weight	150 g	
Dimensions	22.6 x 99 x 113 mm	
Storage temperature	-40 °C to +85 °C	
Protection class	IP30	
Relative humidity	10 to 95 %, non-condensing	
Certification	CE, FCC	
Housing material	Polyamid	

CERTIFICATES	
CE	FC

ACCESSORIES	ORDER NUMBER
Termination adapter for CAN/CAN FD (D-Sub male to female)	1.04.0075.03000
CAN cable 2.0 m (D-Sub male to female)	1.04.0076.00180
CAN Y cable 0.22 m	1.04.0076.00001
CAN Y cable 2.1 m	1.04.0076.00002







