



DATASHEET

CAN-CR100

The CAN repeater CAN-CR100 with 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. Since there is no integrated bus termination resistor, it gives you flexibility in positioning resistors for CAN termination.

The CAN repeater 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

ORDER NUMBER	1.01.0210.20200	
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	None	
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	



ORDER NUMBER	1.01.0210.20200	
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



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

PIN ALLOCATION





