



CAN Repeater

Passive I- or Y-Repeater for CAN

- Linking 2 or 3 CAN network
- With or without electrical isolation
- Compact hat rail module

I- or Y- Repeater

The I-Repeater can be used to improve the participant capacity of the CAN bus or to insert an electrical isolation (only possible in design '-Opto'). The Y-Repeater makes a branch from one to two CAN lines.

Physical Layer

All CAN interfaces of the repeaters are fully ISO 11898 compliant. Each Repeater is available without electrical isolation or with an electrically insulated interface. The maximum transfer rate is 1 Mbit/s. The bit timing has to be the same at all connections. Each CAN interface has a terminating impedance of 120 ohm in the repeater.

Line Length

The total expansion and maximum bit rate of the complex CAN network is determined from the sum of the maximum lengths of sub-networks and Repeaters (eL). Use only one repeater per network.

Power Supply

The CAN Repeater is fed by an external voltage in the area of 8 V ... 30 V.

Arbitration

A total transparency and the perfect arbitration of the CAN objects in all connected networks is guaranteed by the integrated fast logic.



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For further information please visit
<http://www.esd-electronics-usa.com/CAN-Repeaters.html>

growing with the
challenge

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Technical Specifications

CAN bus	
CAN interface	Differential, ISO 11898, bit rate up to 1 Mbit/s
Electrical isolation	Only in '-Opto' design, CAN 1 isolated by optocouplers
Effective line length (eL)	Repeater delay shortens max. line (for constant CAN bit rate) length by max. 14 m
General	
Ambient temperature	0...50o C
Humidity	Max. 90%, non-condensing
Dimensions	25w x 85h x 83d mm
Module operating voltage	Nominal 24 V (DC)
Range	8 V...30 V
Connectors	CAN: each 9-pin DSUB (male)
VCC	3-pin UEGM screw connector

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Order Information

Designation		Order No.
Without electrical isolation		
CAN-Repeater-I	2x CAN	C.1330.02
CAN-Repeater-Y	3x CAN	C.1330.03
With electrical isolation of interface CAN 1		
CAN-Repeater-I Opto	2x CAN	C.1330.06
CAN-Repeater-Y Opto	3x CAN	C.1330.07
CAN-Repeater-ME	English user's manual	C.1330.21

