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# emDrive USB to CAN interface

Datasheet V1.0



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## General

- Adapter for the USB connection (USB 1.1, compatible with USB 2.0 and USB 3.0)
- Bit rates from 5 kbit/s up to 500 kbit/s
- Canopen compatible
- CAN bus connection via D-sub, 9-pin
- Galvanic isolation on the CAN up to 500V

## Housing

- Aluminum housing; Dimensions 70x60x30 mm, weight 93 g
- IP 20 protection

## Connectors



## D-Sub 9-pin

Pin	Name	Description
1	Nc	Not connected
2	CAN - L	Isol. CAN Low
3	CAN GND	Isol. CAN GND
4	RS232 Tx	Not used / optional
5	GND	Not used / optional
6	Nc	Not connected
7	CAN - H	Isol. CAN High
8	RS232 Rx	Not used / optional
9	Ext. 12V power supply In	Not used / optional

## Terminator ON/OFF switch

Position	Description
ON	Internal 120 Ohm termination resistor on CAN bus enabled
OFF	Internal 120 Ohm termination resistor on CAN bus disabled

## Status LED

Status LED	OFF	BLINKING	ON
CON	No connection to emDrive configurator PC software	/	Connected to emDrive configurator PC software
DATA	No CAN traffic	CAN trafic	/



**PC – USB B type client**  
Not supported / optional

**USB EXT – USB A type host**

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