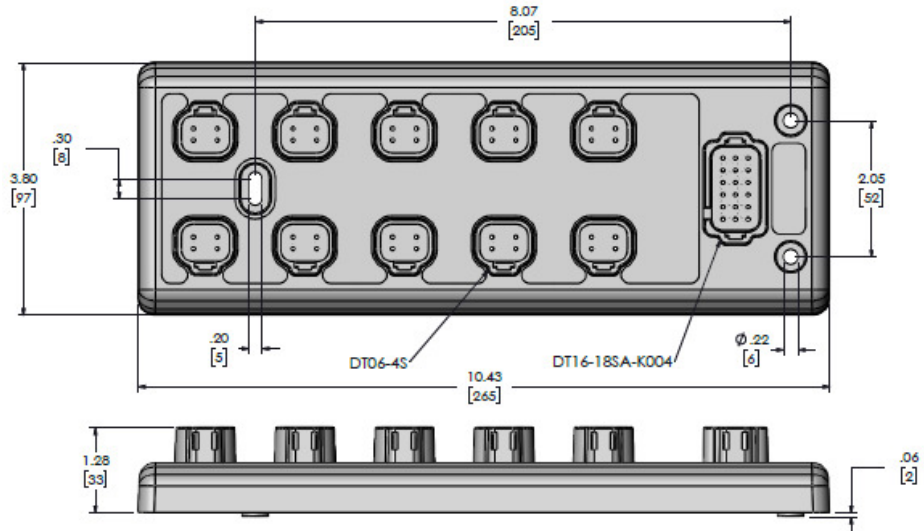


Data Sheet

DP-34045-2-000

**xtremeDB
xDB-2-CAN
CAN Splitter
8-32 Vdc**


**United States Patent:
US 10,069,226
Sep. 4, 2018**



Technical Data

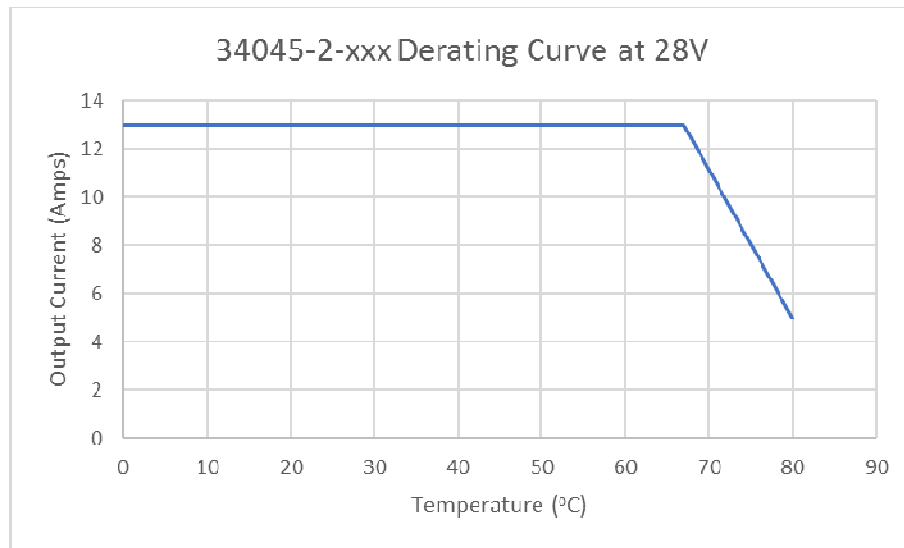
Housing	Molded plastic
Dimensions (l x w x h)	3.80 x 10.43 x 1.34 inch (97 x 265 x 34 mm)
Weight	1.5 lbs (0.68 kg)
Installation (mounting hardware not included)	Screw: 3 x #10 (3 x M5) Torque: 21 in-lbs (2.4 Nm) max.
Mating Connectors and Accessories I/O-Ports	4 Pole Plug 10 x DT06-4S or equivalent DEUTSCH size 20 Socket 0462-201-20141 DEUTSCH size 16 Socket 0462-201-16141 DEUTSCH Seal Plug 114017-ZX
Total CAN Splitters	10
Operating Voltage (Power)	8...32 V DC
Switching Current	13 A per pin max.
Total Current (Power)	13 A max.
Operating Temperature	-40...80 °C
Storage Temperature	-40...85 °C
IP67	Connector seal plugs required for unused pins. Sealing plugs required for unused ports.




				Date	Name	Data Sheet xtremeDB CAN Splitter xDB-2-CAN	Art. No.: DP-34045-2-000	Sheet 1 of 4	
				Originator	02.10.17				JNa
				Approved	02.10.17				KGU
d	DCN F256	05.18.20	FSa	 A Murrelektronik Company					
c	DCN F112	12.02.19	FSa						
Rev.	Description	Date	Name						
b	Initial release	02.10.17	JNa	DP-34045-2-000_db_e_d.docx	The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.				

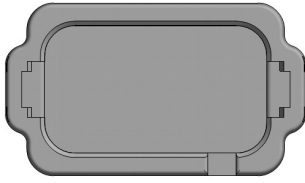
Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports power are connected
Test Standards and Regulation		
Climatic Tests	Temperature Shock to EN 60068-2-14:2000-08	
Mechanical Tests	Vibration to JDQ 53.3 6.1.1 & 6.1.2, level 4 Shock to EN 60068-2-27:2009, test Ea Bump to EN 60068-2-29:2009, test Eb IP protection to EN 60529:2000-09, test IP67	
CE	RoHS: Directive 2011/65/EU	

Derating Curve

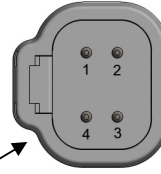
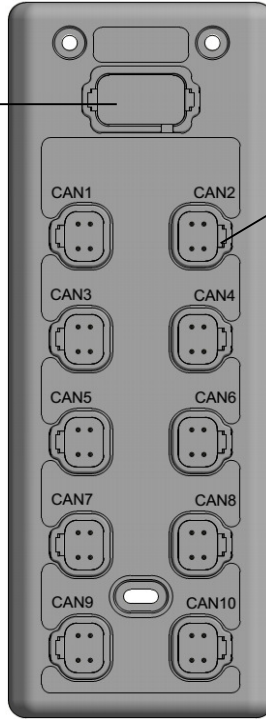
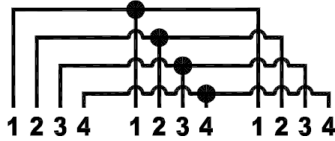


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				Originator	02.10.17		JNa
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d	DCN F256	05.18.20	FSa	 A Murrelektronik Company		Art. No.: DP-34045-2-000	
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Rev.	Description	Date	Name			Sheet	
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Connector Interface



Connections:
No Connection



Connections:
CAN Ports 1 to 10
Pin 1 = Power
Pin 2 = CAN High
Pin 3 = Ground A
Pin 4 = CAN Low

Ports are connected internally in series with each other to conform to trunk/drop system

				Date	Name	Data Sheet
			Originator	02.10.17	JNa	
			Approved	02.10.17	KGu	
d	DCN F256	05.18.20	FSa	DATA PANEL A Murrelektronik Company		xtremeDB CAN Splitter xDB-2-CAN
c	DCN F112	12.02.19	FSa			
Rev.	Description	Date	Name	Art. No.: DP-34045-2-000		Sheet 3 of 4
b	Initial release	02.10.17	JNa	DP-34045-2-000_db_e_d.docx	The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.	

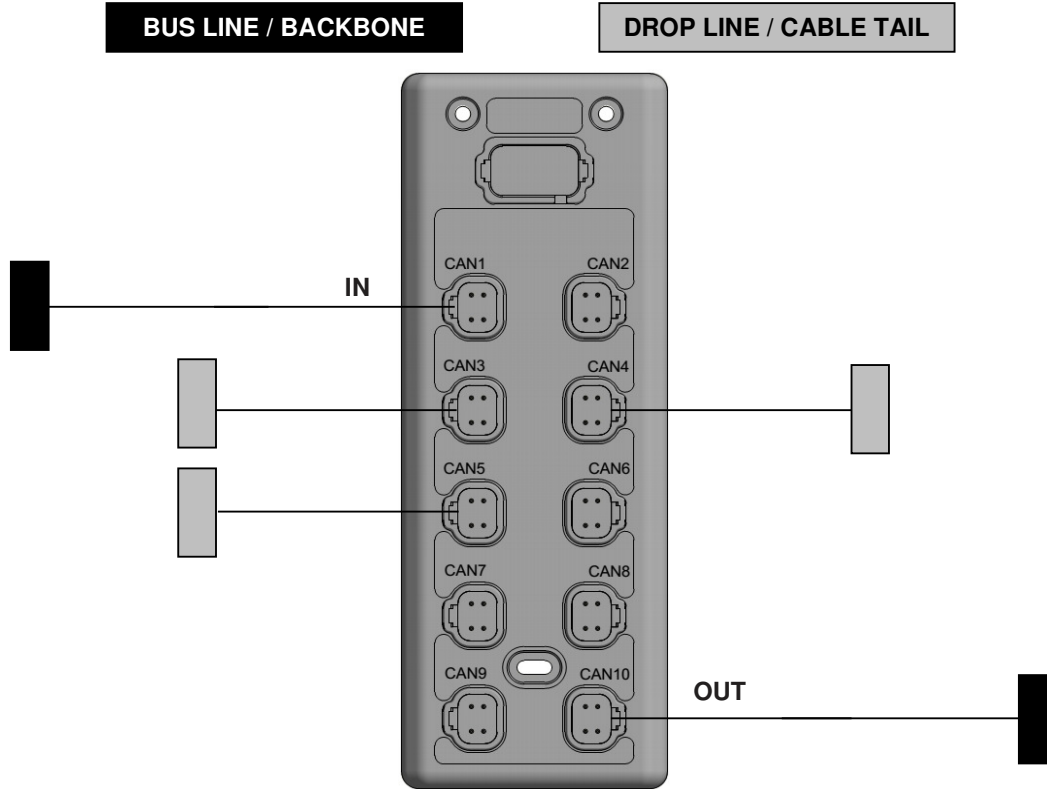
Drop Lines

SIGNAL REFLECTIONS CAUSED BY DROP LINES!

Drop lines can give rise to signal reflections in CAN networks.

When using splitters in CAN networks, the possible drop line lengths are reduced further.


- Drop lines should vary in length to reduce the rise of signal reflections.
- Terminate the bus line at both ends with a 120 Ω resistor.
- Do not terminate drop lines with a resistor under any circumstances!



Sample Topology of Drop Lines:

The following table shows the maximum drop line lengths and the maximum length of the CAN bus line. The table specifies the maximum drop line lengths and the maximum length of the CAN bus line (drop lines not included) using a splitter.

Baud Rate	Drop Line Length	Total Length
1 Mbit/s	< 0.3 m	< 25 m
500 kbit/s	< 1.2 m	< 66 m
250 Kbit/s	< 2.4 m	< 120 m
125 Kbit/s	< 4.8 m	< 310 m

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