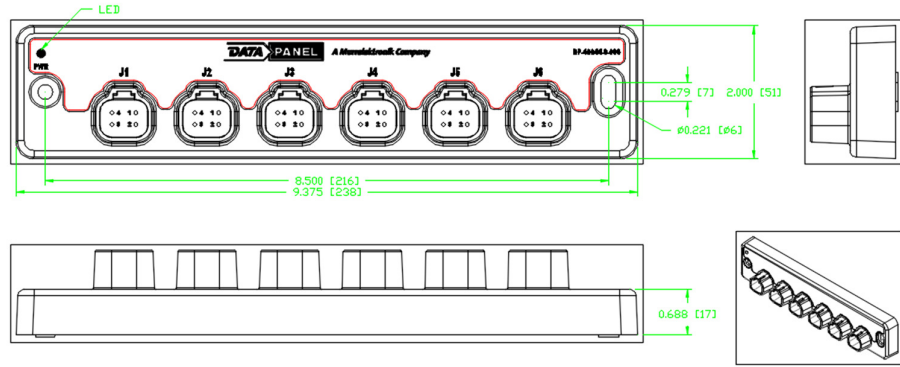


Data Sheet

DP-40044-00-000


xtremeDBm
xDBm06-CAN
Molded Plastic
Module
4 Pin Splitter

8...32 Vdc

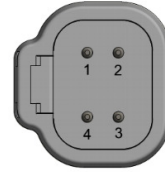
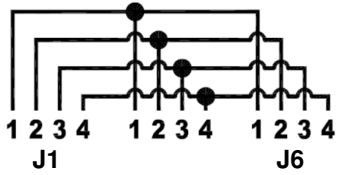


Technical Data

<i>Housing</i>	Molded glass filled nylon
<i>Dimensions (l x w x h)</i>	2.000 x 9.375 x 1.34 in (51 x 239 x 34 mm)
<i>Weight</i>	0.66 lbs (0.30 kg)
<i>Installation (mounting hardware not included)</i>	Screw: 2 x #10 (2 x M5) Torque: 21 in-lbs (2.4 Nm) max.
<i>Mating Connectors and Accessories</i>	4 Pole Plug 10 x DT06-4S or equivalent
<i>DEUTSCH® size 16 Socket</i>	0462-201-16141
<i>DEUTSCH® Seal Plug</i>	0462-16-0122
<i>Total CAN Splitters</i>	6
<i>Operating Voltage (Power)</i>	8...32 V DC
<i>Switching Current</i>	13 A per circuit max.
<i>Total Current (Power)</i>	26 A max.
<i>Operating Temperature</i>	-40...80 °C
<i>Storage Temperature</i>	-40...85 °C
<i>Protection Class</i>	IP67: Connector seal plugs required for unused pins. Sealing plugs required for unused ports IP68/IP69K: Using MDC xtreme cables.

				Date	Name	Data Sheet xtremeDBm CAN Splitter xDBm06-CAN	Art. No.: DP-40044-00-000	<i>Sheet</i> 1 of 4	
				Originator	07.12.21				FSa
				Approved	07.12.21				FSa
				 A Murrelektronik Company					
Rev.	Description	Date	Name	DP-40044-00-000_db_e_a.docx	The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.				
a	DCN F714	07.12.21	FSa						

Connector Interface



Connections:

Ports J1 to J6

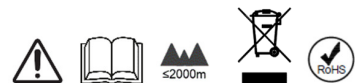
- Pin 1 = POWER
- Pin 2 = CAN HIGH
- Pin 3 = GROUND
- Pin 4 = CAN LOW


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

Power LED Pin 1 to Pin 3

Article Numbers

DP-40044-00-000	4 Pin Deutsch Splitter w/ LED (Pin 1 to Pin 3)
DP-40044-00-001	4 Pin Deutsch Splitter w/o LED

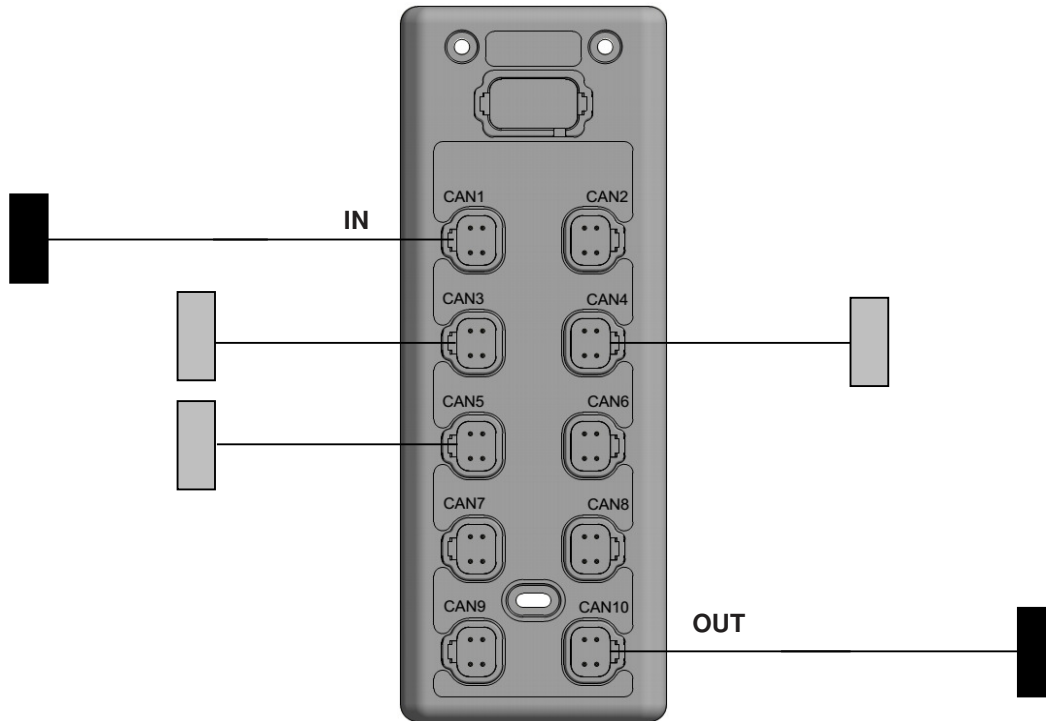


				Date	Name	Data Sheet xtremeDBm CAN Splitter xDBm06-CAN	Sheet 3 of 4	
				Originator	07.12.21			FSa
				Approved	07.12.21			FSa
				 A Murrelektronik Company			Art. No.: DP-40044-00-000	
Rev.	Description	Date	Name	DP-40044-00-000_db_e_a.docx	The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.			
a	DCN F714	07.12.21	FSa					

Application Notes

BUS LINE / BACKBONE

DROP LINE / CABLE TAIL




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

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!

				Date	Name	Data Sheet xtremeDBm CAN Splitter xDBm06-CAN	Art. No.: DP-40044-00-000	<i>Sheet</i> 4 of 4
				Originator	FSa			
				Approved	FSa			
				 A Murrelektronik Company				
Rev.	Description	Date	Name	DP-40044-00-000_db_e_a.docx	The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.			
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