

Data Sheet

DP-40044-09-000

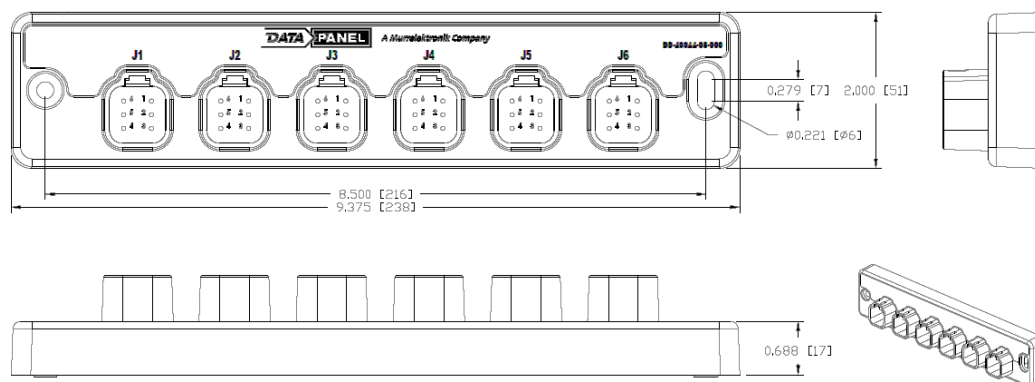
xtremeDBm

**XDBM06-6P CAN
NO LED**

Molded Plastic


**Module
6 Pin Splitter**

8...32 Vdc



Technical Data

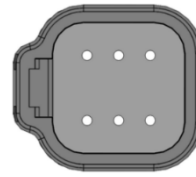
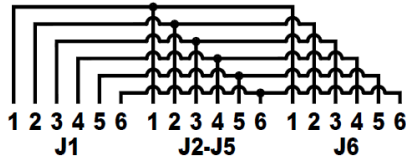
Housing	Molded glass filled nylon
Dimensions (l x w x h)	2.000 x 9.375 x 1.34 in (51 x 239 x 34 mm)
Weight	0.628 lbs (0.285 kg)
Installation (mounting hardware not included)	Screw: 2 x #10 (2 x M5) Torque: 21 in-lbs (2.4 Nm) max.
Mating Connectors and Accessories	6 Pole Plug 6 x DT06-6S or equivalent
DEUTSCH® size 16 Socket	0462-201-16141 (16 – 20 AWG) 1062-16-0122 (14 – 18 AWG)
DEUTSCH® Seal Plug	114017
Total CAN Splitters	6
Operating Voltage (Power)	8...32 V DC
Switching Current	13 A per circuit max.
Total Current (Power)	26 A max.
Operating Temperature	-40...85 °C
Storage Temperature	-40...85 °C
Protection Class	IP67: Connector seal plugs required for unused pins. Sealing plugs required for unused ports IP68/IP69K: Using MDC xtreme cables.

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				Originator	03.11.25	MH		
				Approved			xtremeDBm CAN Splitter XDBM06-6P CAN NO LED	
				 A Murrelektronik Company			Art. No.: DP-40044-09-000	
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Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports power are connected

Connector Interface



Connections:

Ports J1 to J6

- Pin 1 = POWER/GND
- Pin 2 = Can High / Passthrough
- Pin 3 = POWER/GND
- Pin 4 = Can Low / Passthrough
- Pin 5 = Pass Through
- Pin 6 = Pass Through


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

Article Numbers

DP-40044-09-000

6 Pin Deutsch Splitter w/o LED



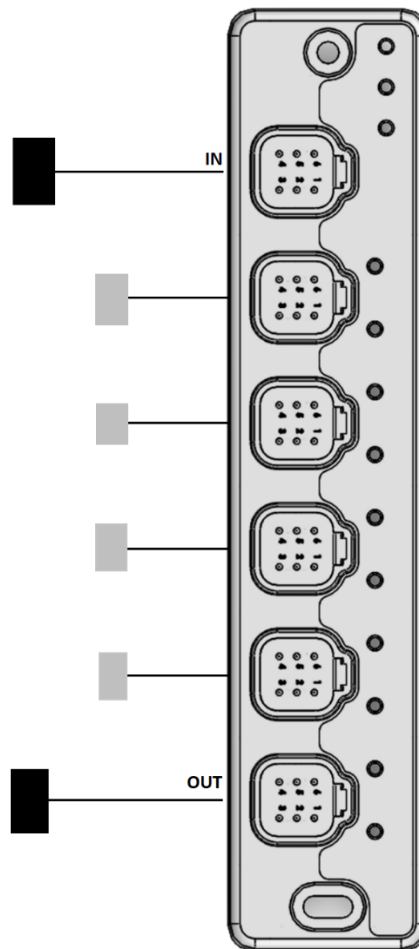
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Application Notes

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!

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