

Data Sheet

DP-34045-1-000

xtremeDB

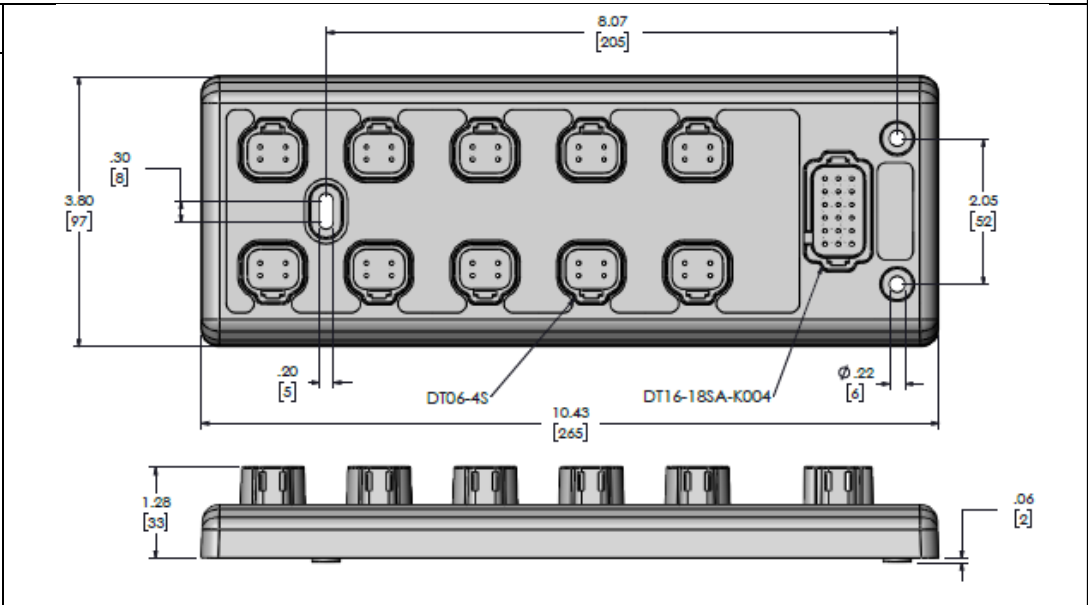
xDB-1-SIM

Passive Module

Molded Plastic

8-32 Vdc


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



Technical Data

Housing	Molded glass filled nylon
Dimensions (l x w x h)	3.80 x 10.43 x 1.34 in (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 Operating Voltage, Ground, and Configuration I/O-Ports	18 Pole Plug DT16-18SA or equivalent 4 Pole Plug 10 x DT06-4S or equivalent
DEUTSCH size 16 Socket	0462-201-16141 (16 – 20 AWG) 1062-16-0122 (14 – 18 AWG) 114017
DEUTSCH Seal Plug	
Total I/Os	16 (2 mirrored ports: ports 7 & 9 and ports 8 & 10)
Operating Voltage (BATTERY)	8...32 V DC
Current (BATTERY, GROUND)	13 A per pin max.
Current (IO)	8 A per pin max.
Total Node Current	52 A max.
Operating Temperature	-40...80 °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.



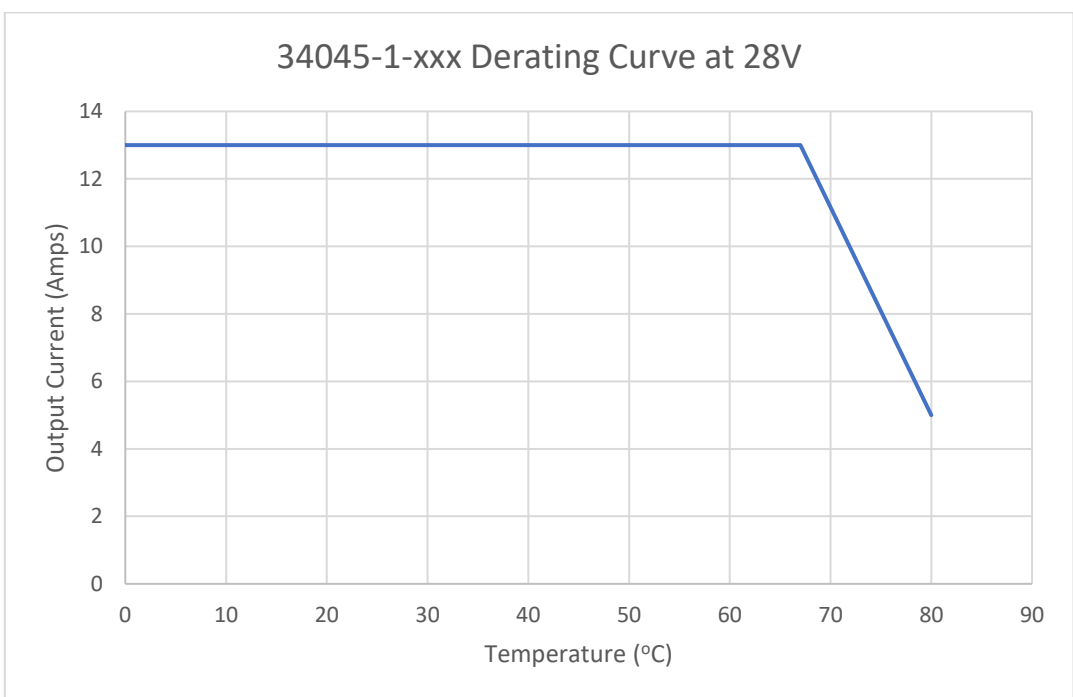
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f	DCN F645	05.05.21	FSa	Originator	02.09.17	JNa		
e	DCN F412	10.02.20	TMc	Approved	02.10.17	KGU		
d	DCN F256	05.18.20	FSa					
c	DCN F112	12.02.19	FSa	 A Murrelektronik Company			Art. No.: DP-34045-1-000	
Rev.	Description	Date	Name					Sheet 1 of 4
b	Initial release	02.10.17	JNa	DP-34045-1-000_db_e_f	The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.			


Operating States (LEDs)	Color	Status
I/O	Yellow	Left LED – I/O-A Right LED – I/O-B

Test Standards and Regulation

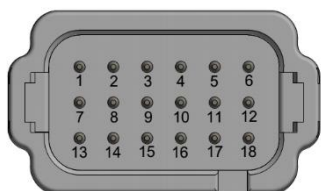
Climatic Tests	Cold Temperature to IEC 60068-2-1:2007, test Ad Dry Heat to IEC 60068-2-2:2007, test Bb Temperature Durability to IEC 60068-2-14:2000-08, test Nb Temperature Shock to IEC 60068-2-14:2000-08, test Na Humidity Soak to IEC 60068-2-78:2001, test Cab Humidity Cycle to IEC 60068-2-30:2005, test Db
Mechanical Tests	Swept Sine Vibration to IEC 60068-2-6:2007, test Fc Random Vibration to IEC 60068-2-64:2008, test Fh Resonance Vibration to IEC 60068-2-6:2007, Section 8.1 Mechanical Shock to EN 60068-2-27:2008, test Ea Mechanical Bump to EN 60068-2-27:2008, test Ec IP protection to EN 60529:2000-09, test IP67, IP68, IP69K Chemical Loads to ISO 16750-5:2010 Part 5: AA, BA, BC, BD, BE, CC, DB, DD
CE	RoHS: Directive 2011/65/EU

Derating Curve



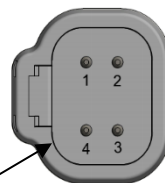
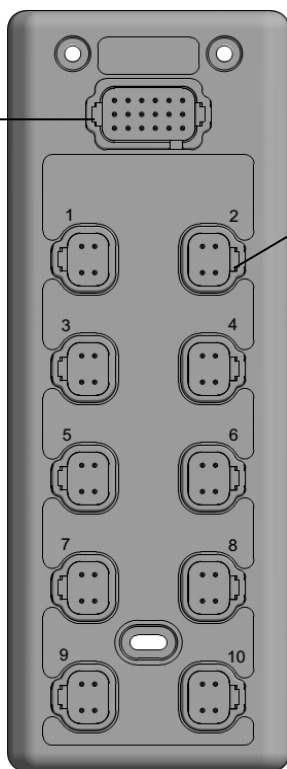
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Connector Interface



Connections:

1. Port 1, Pin 4: I/O-1A
2. Port 1, Pin 2: I/O-1B
3. Port 2, Pin 4: I/O-2A
4. Port 2, Pin 2: I/O-2B
5. Port 3, Pin 4: I/O-3A
6. Port 3, Pin 2: I/O-3B
7. Port 4, Pin 4: I/O-4A
8. Port 4, Pin 2: I/O-4B
9. Port 5, Pin 4: I/O-5A
10. Port 5, Pin 2: I/O-5B
11. Port 6, Pin 4: I/O-6A
12. Port 6, Pin 2: I/O-6B
13. Port 7 & 9, Pin 4: I/O-7A
14. Port 7 & 9, Pin 2: I/O-7B
15. Port 8 & 10, Pin 4: I/O-8A
16. Port 8 & 10, Pin 2: I/O-8B
17. BATTERY
18. GROUND



Connections:

Power Ports 1 to 10

- Pin 1 = BATTERY
- Pin 3 = GROUND

Input/Output Ports 1 to 10

- Port 1, Pin 4: I/O-1A
- Port 1, Pin 2: I/O-1B

- Port 2, Pin 4: I/O-2A
- Port 2, Pin 2: I/O-2B

- Port 3, Pin 4: I/O-3A
- Port 3, Pin 2: I/O-3B


- Port 4, Pin 4: I/O-4A
- Port 4, Pin 2: I/O-4B

- Port 5, Pin 4: I/O-5A
- Port 5, Pin 2: I/O-5B

- Port 6, Pin 4: I/O-6A
- Port 6, Pin 2: I/O-6B

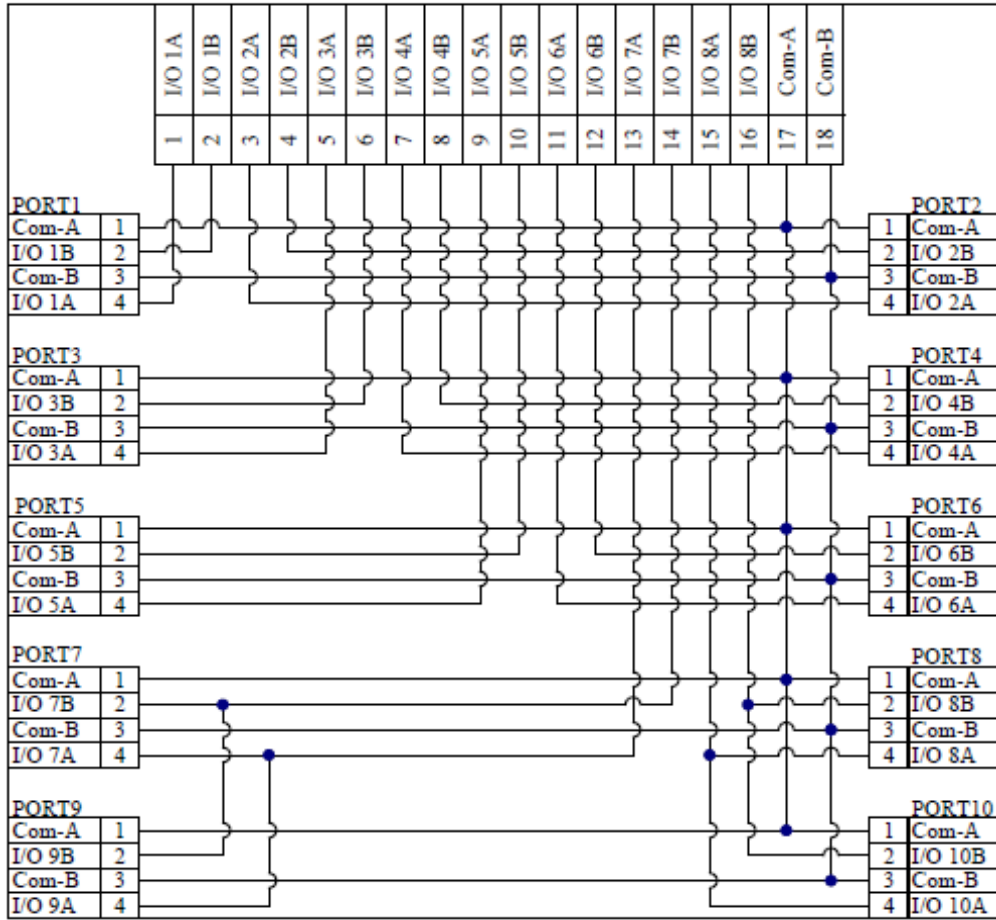
- Port 7 & 9, Pin 4: I/O-7A
- Port 7 & 9, Pin 2: I/O-7B

- Port 8 & 10, Pin 4: I/O-8A
- Port 8 & 10, Pin 2: I/O-8B

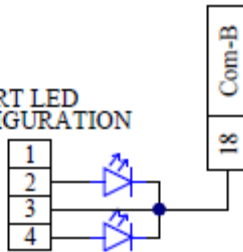
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Connector Wire Diagram

34045-1-000 I/O Diagram



PORT LED CONFIGURATION



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