

Data Sheet

DP-34045-1-000

xtremeDB

xDB-1-SIM

Passive Module

Molded Plastic

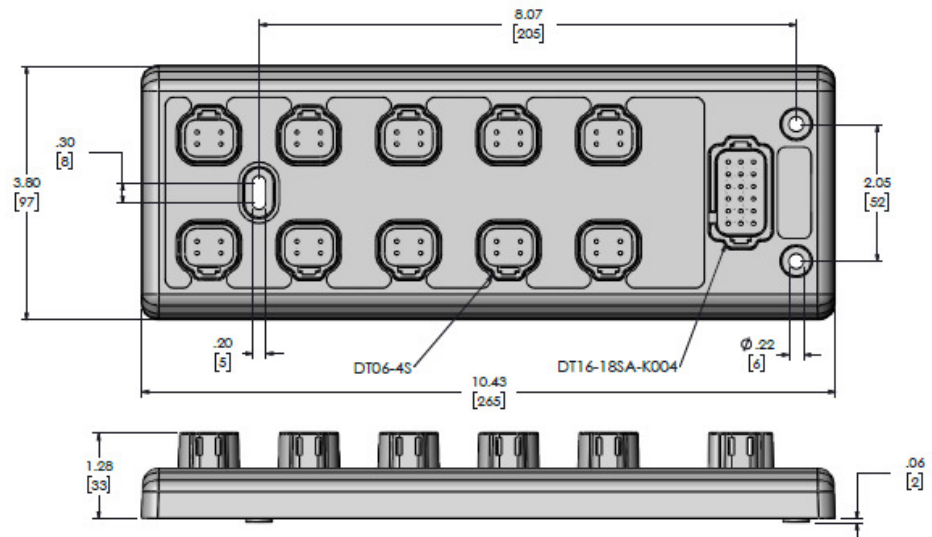
8-32 Vdc

United States

Patent:

US 10,069,226

Sep. 4, 2018



Technical Data

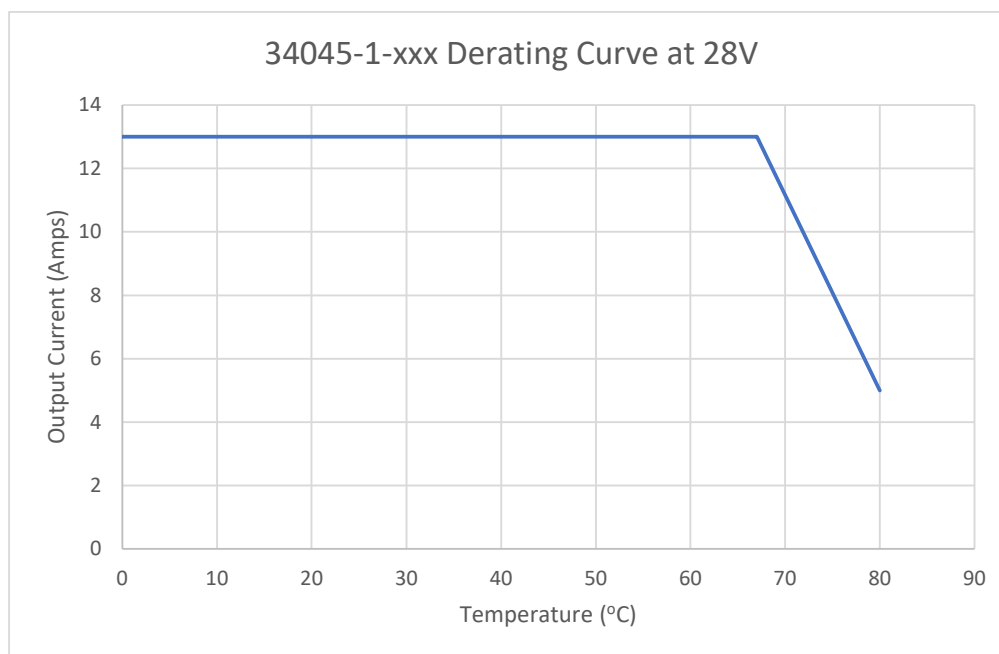
Housing	Molded plastic
Dimensions (l x w x h)	3.80 x 10.43 x 1.34 in (97 x 265 x 34 mm)
Weight	1.5 lbs (0.68 kg)
Installation (mounting hardware not included)	Screw: 3 x #10 (3 x M5) Torque: 21 in-lbs (2.4 Nm) max.
Mating Connectors and Accessories Operating Voltage, Ground, and Configuration I/O-Ports	18 Pole Plug DT16-18SA or equivalent 4 Pole Plug 10 x DT06-4S or equivalent
DEUTSCH size 20 Socket DEUTSCH size 16 Socket DEUTSCH Seal Plug	0462-201-20141 0462-201-16141 114017-ZX
Total I/Os	16 (2 mirrored ports: ports 7 & 9 and ports 8 & 10)
Operating Voltage (Battery)	8...32 V DC
Switching Current	13 A per pin max.
Total Current (Battery)	13 A max.
Total Current (IO)	8 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.



					Date	Name	Data Sheet xtremeDB Passive Module xDB-1-SIM		
				Originator	02.09.17	JNa			
e	DCN F412	10.02.20	TMc	Approved	02.10.17	KGu			
d	DCN F256	05.18.20	FSa	DATA PANEL A Murrelektronik Company					
c	DCN F112	12.02.19	FSa				Art. No.: DP-34045-1-000		Sheet 1 of 4
Rev.	Description	Date	Name						
b	Initial release	02.10.17	JNa	DP-34045-1-000_db_e_e.docx			The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.		

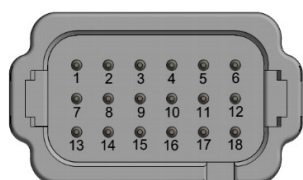
Operating States (LEDs)	Color	Status
I/O	Yellow	Left LED – I/O-A Right LED – I/O-B
Test Standards and Regulation		
Climatic Tests	Cold Temperature to IEC 60068-2-1:2007, test Ad Dry Heat to IEC 60068-2-2:2007, test Bb Temperature Durability to IEC 60068-2-14:2000-08, test Nb Temperature Shock to IEC 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



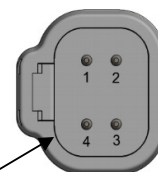
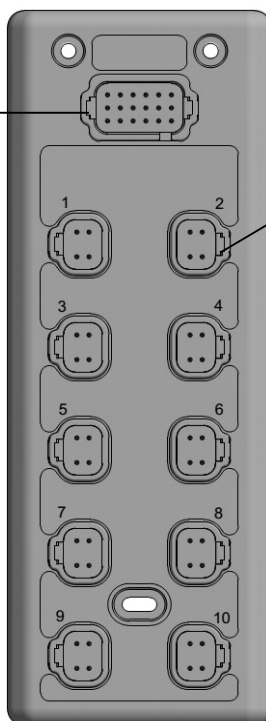
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Connector Interface



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

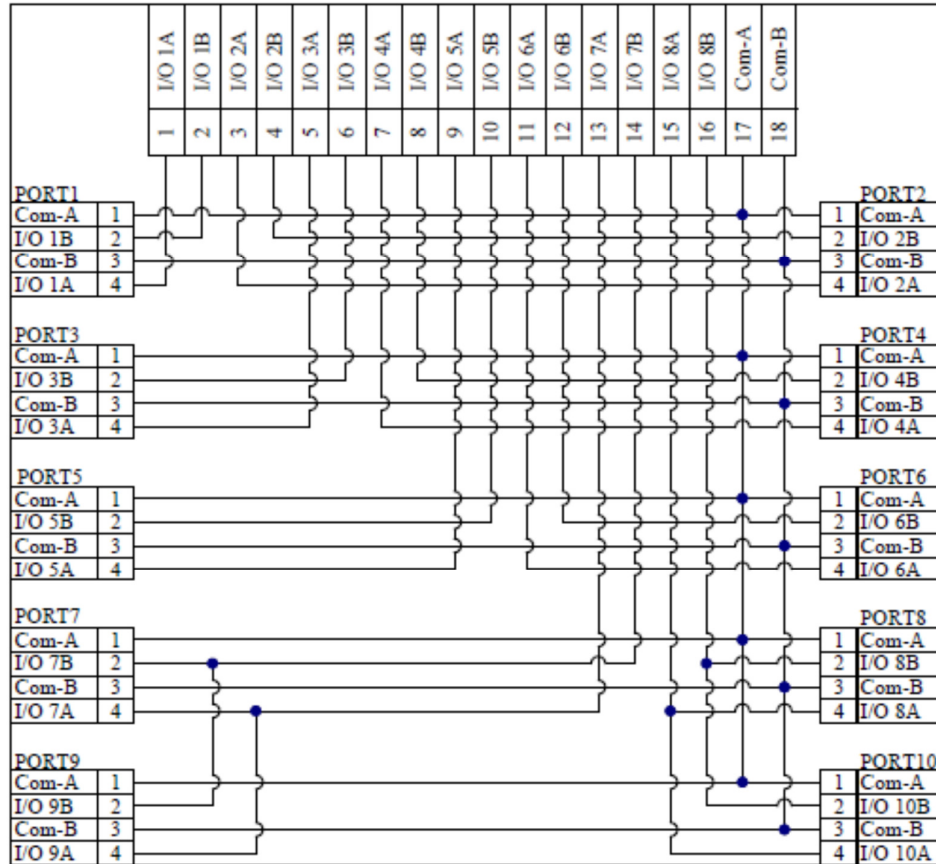
Port 8 & 10, Pin 4: I/O-8A
Port 8 & 10, Pin 2: I/O-8B

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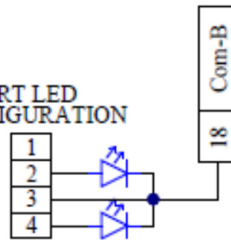
Sheet
3 of 4

Connector Wire Diagram

34045-1-000 I/O Diagram



PORT LED CONFIGURATION



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