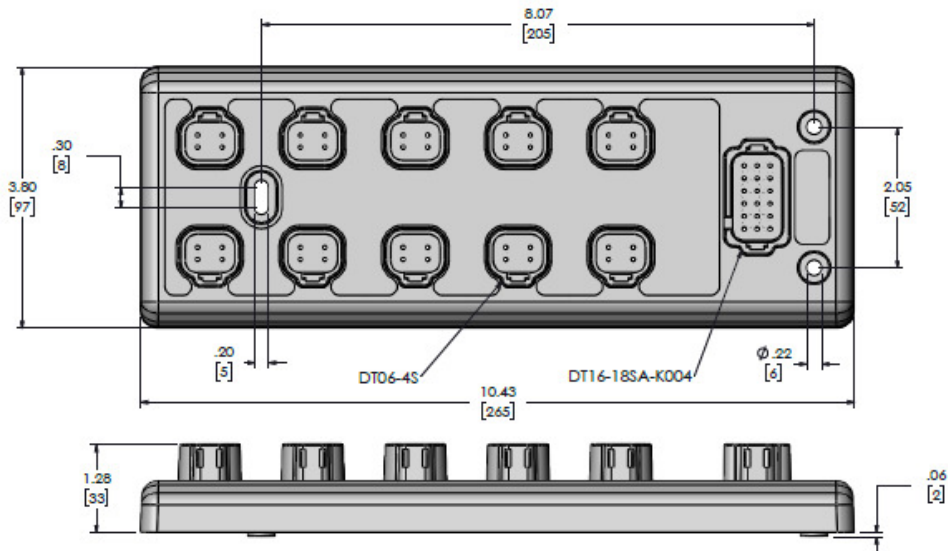


# Data Sheet

**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 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 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	0462-201-20141
DEUTSCH size 16 Socket	0462-201-16141
DEUTSCH Seal Plug	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
IP67	Connector seal plugs required for unused pins. Sealing plugs required for unused ports.

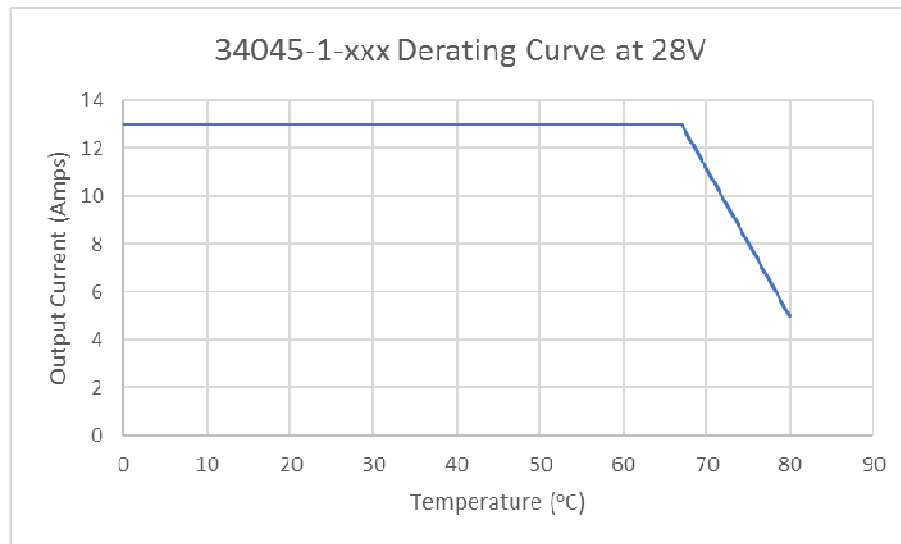



				Date	Name	<b>Data Sheet</b> <b>xtremeDB Passive Module</b> <b>xDB-1-SIM</b>	<b>Art. No.: DP-34045-1-000</b>	<i>Sheet</i> 1 of 4	
				Originator	02.09.17				JNa
				Approved	02.10.17				KGu
d	DCN F256	05.18.20	FSa	 A Murrelektronik Company					
c	DCN F112	12.02.19	FSa						
Rev.	Description	Date	Name						
b	Initial release	02.10.17	JNa	DP-34045-1-000_db_e_d.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

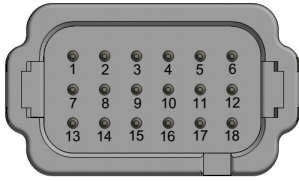
Test Standards and Regulation	
Climatic Tests	Temperature Shock to EN 60068-2-14:2000-08
Mechanical Tests	Vibration to JDQ 53.3 6.1.1 & 6.1.2, level 4 Shock to EN 60068-2-27:2009, test Ea Bump to EN 60068-2-29:2009, test Eb IP protection to EN 60529:2000-09, test IP67
CE	RoHS: Directive 2011/65/EU

### Derating Curve



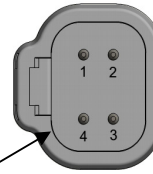
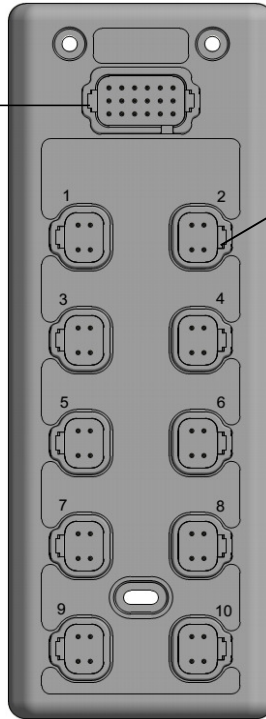
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## Connector Interface



**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

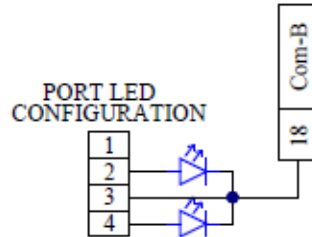
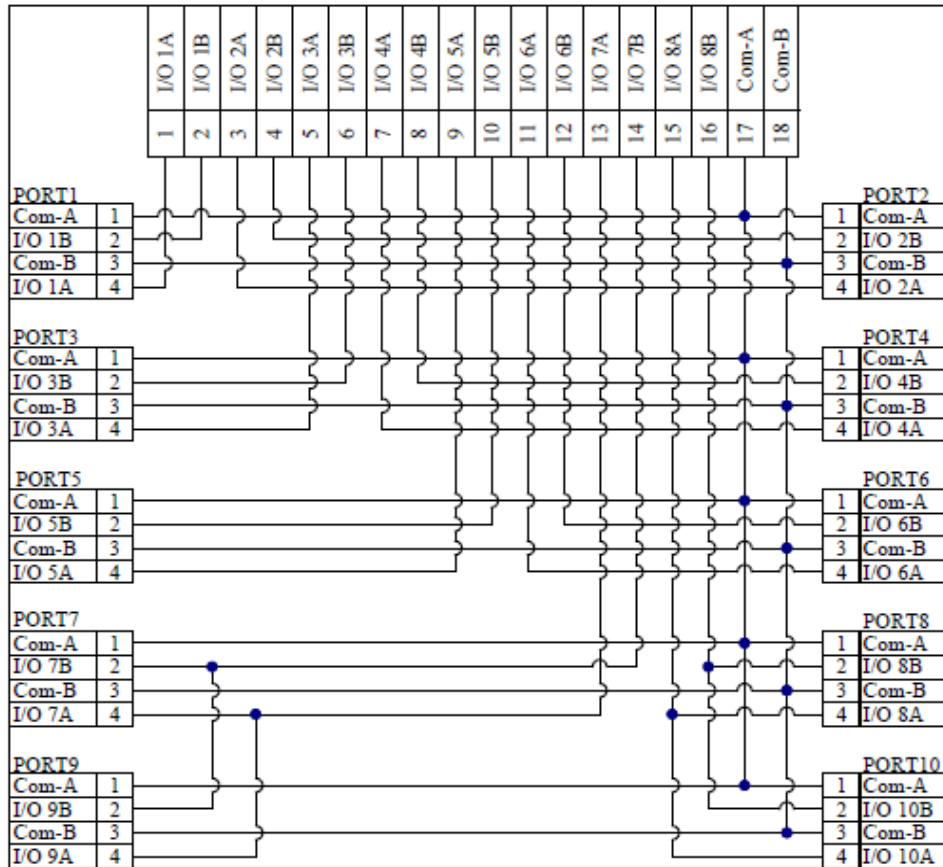
- Port 7 & 9, Pin 4: I/O-7A  
 Port 7 & 9, Pin 2: I/O-7B


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

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Rev.	Description	Date	Name					
b	Initial release	02.10.17	JNa	DP-34045-1-000_db_e_d.docx	The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.			

## Connector Wire Diagram

34045-1-000 I/O Diagram



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