

Data Sheet

<p>DP-34044-4-200</p> <p>xtremeDB</p> <p>xDB16-PWMI</p> <p>Molded Plastic</p> <p>Output Module Digital and PWM(i)</p> <p>CANopen</p> <p>8...32 Vdc</p>	
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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	
Cable Length	98.4 ft (30 m) max.
Operating Voltage	8...32 V DC protected against reverse polarity
Operating Current	13 Amps continuous per pin max. 52 Amps node current max.
Communication Interface and Baud Rate	2 non-isolated CANopen 250kb (default) & 500kb
Node ID	Node ID = 1 Offset 0...15 (J0: CNFGx-A/B)
Total Outputs	16 (12 paired 4 Amps, 2 x 4 Amps, 2 x 10 Amps)
Outputs Diagnostics	Short circuit and Overcurrent
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 Murrelektronik MDC xtreme cables.


					Date	Name	<p>Data Sheet</p> <p>xtremeDB PWM(i) Module CANopen xDB16-PWMI</p>
			Originator	05.13.20	TMc		
d	DCN 6022	08.28.23	AH	Approved	05.13.20	FSa	
c	DCN F750	09.09.21	FSa				
b	DCN F715	07.14.21	FSa	<p>A Murrelektronik Company</p>			<p>Art. No.: DP-34044-4-200</p>
Rev.	Description	Date	Name				
a	DCN F363	08.11.20	FSa	DP-34044-4-200_db_e_c			The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.

Characteristics of the Output Ports

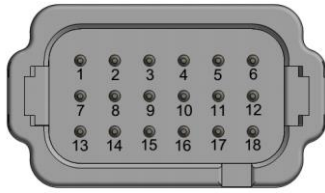
Outputs	<i>Digital Output</i>	
	Output voltage	8...32 V DC
	Switching current	4 Amps
		10 Amps (Port1 A Pin-4)
		10 Amps (Port3 A Pin-4)

	<i>PWM & PWM(i) Output</i>	
	PWM frequency	40-1100 Hz
	PWM(i) frequency	100-700 Hz
	Switching current	4 Amps
	<i>Default configuration</i>	Digital 4 Amps

Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports power are connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
P1 – P4	Blue	Bus Power (Port Output Power)
OUT	Yellow	Left LED – Output A Right LED – Output B

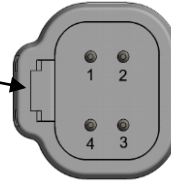
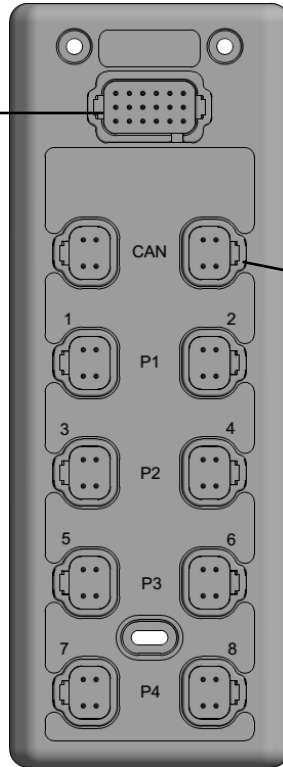
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Connector Interface



Connections J0:

1. BAUD1-A
2. CNFG1-A
3. CNFG2-A
4. CNFG3-A
5. CNFG4-A
6. BATTERY P4
7. BAUD1-B
8. CNFG1-B
9. CNFG2-B
10. CNFG3-B
11. CNFG4-B
12. GROUND B
13. BATTERY P1
14. BATTERY P2
15. BATTERY P3
16. GROUND B
17. GROUND B
18. GROUND B



Connections:

CAN Port 1 & 2


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

OUTPUT Ports 1 to 8

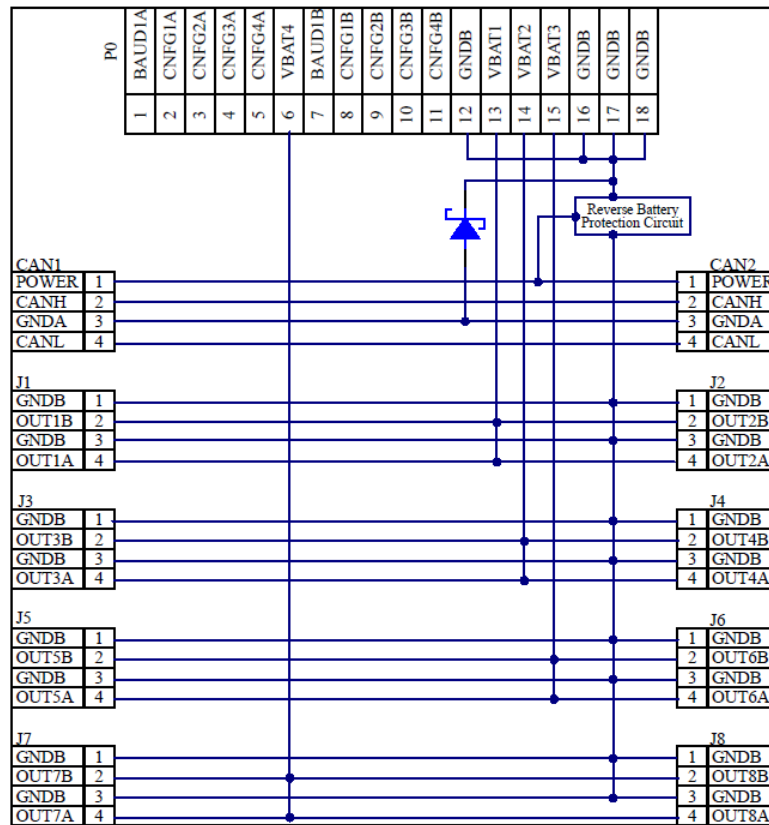
- Pin 1 = GROUND B
- Pin 2 = OUTPUT B
- Pin 3 = GROUND B
- Pin 4 = OUTPUT A



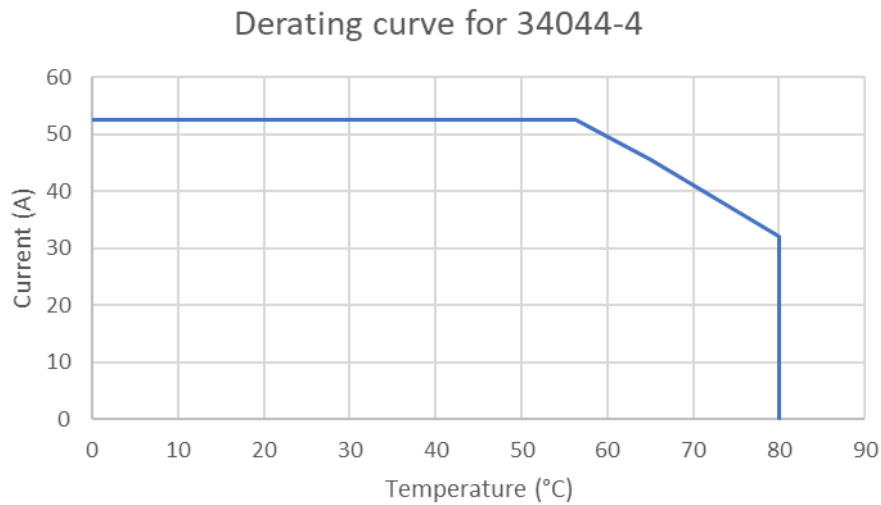
Proper installation and operation of the xtremeDB blocks requires the use of all ground connections. This includes Ground (A) for module power and Ground (B) for port power on the 18 pin configuration and power plug.


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d	DCN 6022	08.28.23	AH	Originator	05.13.20			
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DP-34044-4-XXX I/O Diagram



Derating Curve Max Total Current



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Test Standards and Regulation

<i>Climatic test</i>	<p><i>Cold Temperature to IEC 60068-2-1:2007, test Ad</i> <i>Dry Heat to IEC 60068-2-2:2007, test Bb</i> <i>Temperature Durability to IEC 60068-2-14:2000-08, test Nb</i> <i>Temperature Shock to IEC 60068-2-14:2000-08, test Na</i> <i>Humidity Soak to IEC 60068-2-78:2001, test Cab</i> <i>Humidity Cycle to IEC 60068-2-30:2005, test Db</i></p>
<i>Mechanical test</i>	<p><i>Swept Sine Vibration to IEC 60068-2-6:2007, test Fc</i> <i>Random Vibration to IEC 60068-2-64:2008, test Fh</i> <i>Resonance Vibration to IEC 60068-2-6:2007, Section 8.1</i> <i>Mechanical Shock to EN 60068-2-27:2008, test Ea</i> <i>Mechanical Bump to EN 60068-2-27:2008, test Ec</i> <i>IP protection to EN 60529:2000-09, test IP67, IP68, IP69K</i> <i>Chemical Loads to ISO 16750-5:2010 Part 5: AA, BA, BC, BD, BE, CC, DB, DD</i></p>
<i>Electrical test</i>	<p><i>Electrical Tests to ISO 16750-2:2012</i> <i>EMC Immunity to ISO 13766-1:2018, ISO 13766-2:2018, ISO 13309:2010</i> <i>EMC Emissions to ISO 13766-1:2018, ISO 13766-2:2018, ISO 13309:2010</i> <i>Conducted Transients to ISO 13766-1:2018, ISO 13766-2:2018, ISO7637-2:2011, Annex A</i></p>
<i>CE</i>	<p><i>RoHS: Directive 2011/65/EU</i> <i>EMI/EMC: Directive 2014/30/EU</i></p>

Article Numbers

DP-34044-4-000	J1939 Slave Module
DP-34044-4-200	CANopen Slave module



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