

Data Sheet

<p>DP-34044-3-200</p> <p>xtremeDB</p> <p>xDB16-PWM</p> <p>Molded Plastic</p> <p>Output Module Digital, PWM, and PWM(i)</p> <p>CANopen</p> <p>8...32 Vdc</p>	<p>The drawing shows a rectangular module with two rows of connectors. The top row has 10 DT06-4S connectors and 1 DT16-18SA-K004 connector. The bottom row has 10 DT06-4S connectors. Dimensions include: overall length 8.07 in [205], overall width 3.80 in [97], mounting hole offset .30 in [8], connector offset .20 in [5], connector pitch 1.28 in [33], and mounting hole diameter Ø.22 in [6].</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 (14 PWM/PWM(i) 4 Amps and 2 Digital 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 IO Module CANopen xDB16-PWM</p> <p>Art. No.: DP-34044-3-200</p>	<p>Sheet 1 of 5</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	<p>A Murrelektronik Company</p>				
b	DCN F715	07.14.21	FSa					
Rev.	Description	Date	Name					
a	DCN F257	05.13.20	FSa	DP-34044-3-200_db_e_c			The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.	

Characteristics of the Output Ports

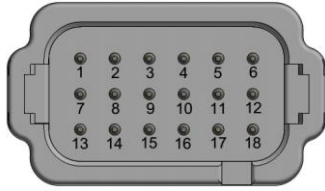
Outputs	Digital Output	Output voltage	8...32 V DC
	Switching current	4 Amps	10 Amps (Port1A Pin-4) 10 Amps (Port3A Pin-4)

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

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

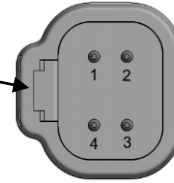
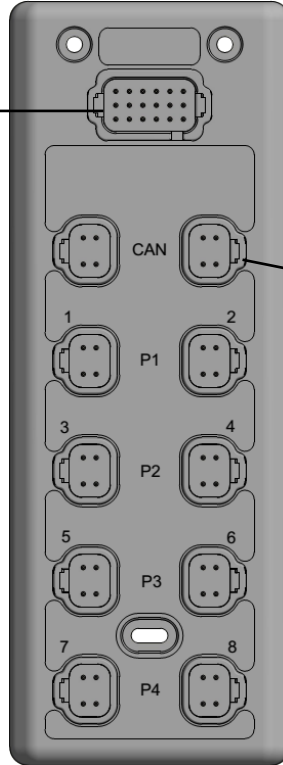
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Connector Interface



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

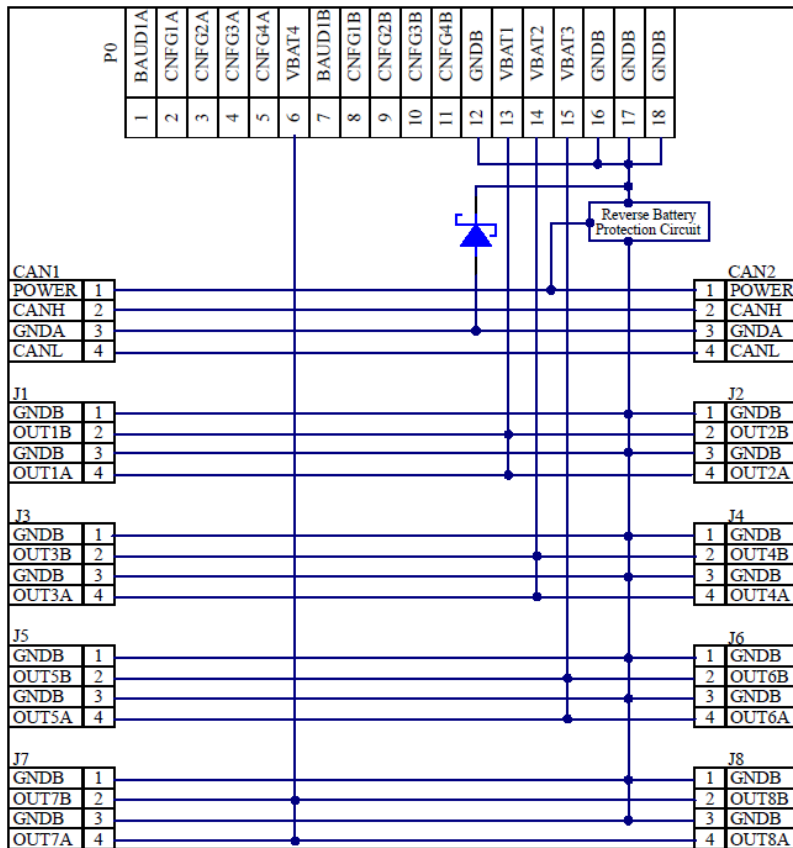
- Pin 1 = GROUND B
- Pin 2 = OUTPUT B
- Pin 3 = GROUND B
- Pin 4 = OUTPUT A



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.

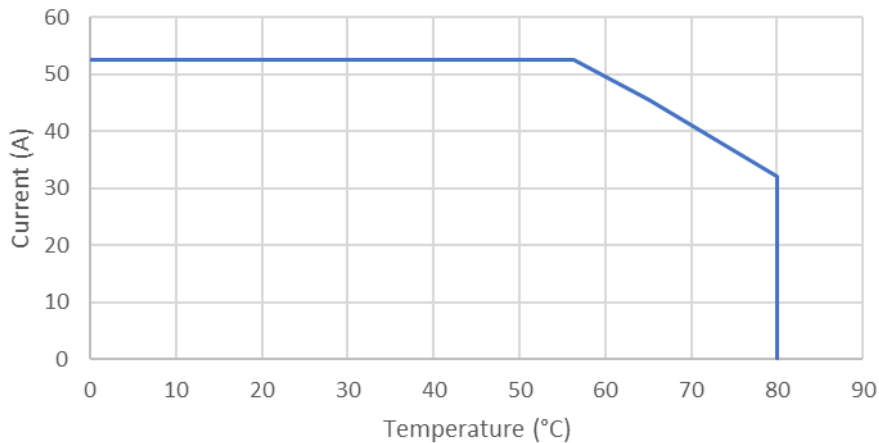
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DP-34044-3-XXX I/O Diagram



Derating Curve Max Total Current

Derating curve for 34044-3



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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-34044-3-000	J1939 Slave Module
DP-34044-3-200	CANopen Slave module



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