

Data Sheet

<p>DP-34044-3-000</p> <p><i>xtremeDB</i></p> <p><i>xDB16-PWM</i></p> <p>Molded Plastic</p> <p>Output Module <i>Digital, PWM, and PWM(i)</i></p> <p>J1939</p> <p>8...32 V DC</p>	<p>Technical drawing showing dimensions for the DP-34044-3-000 module. Dimensions include: 8.07 [205] (total length), 3.80 [97] (total height), 2.05 [52] (right side height), 10.43 [265] (main body length), 1.28 [33] (bottom height), 0.30 [8] (top left offset), 0.20 [5] (bottom left offset), 0.22 [6] (hole diameter), and 0.06 [2] (bottom right offset). Connector types DT06-4S and DT16-18SA-K004 are labeled.</p>
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Technical Data

<i>Housing</i>	<i>Molded glass filled nylon</i>
<i>Dimensions (l x w x h)</i>	3.80 x 10.43 x 1.34 in (97 x 265 x 34 mm)
<i>Weight</i>	1.5 lbs (0.68 kg)
<i>Installation (mounting hardware not included)</i>	Screw: 3 x #10 (3 x M5) Torque: 21 in-lbs (2.4 Nm) max.
<i>Mating Connectors and Accessories</i> <i>Operating Voltage, Ground, and Configuration</i> <i>I/O-Ports</i>	18 Pole Plug DT16-18SA or equivalent 4 Pole Plug 10 x DT06-4S or equivalent
<i>DEUTSCH® size 16 Socket</i>	0462-201-16141 0462-16-0122 114017
<i>DEUTSCH® Seal Plug</i>	
<i>Maximum Cable Length</i>	98.4 ft (30 m) max.
<i>Operating Voltage</i>	8...32 V DC protected against reverse polarity
<i>Operating Current</i>	13 Amps continuous per pin max. 52 Amps node current max.
<i>Communication Interface and Baud Rate</i>	2 non-isolated J1939 ports 250kb (default) & 500kb
<i>Source Address</i>	Base Address 224d (0xE0h) Offset 0...15 (J0: CNFGx-A/B)
<i>Total Outputs</i>	16 (14 PWM/PWM(i) 4 A and 2 Digital x 10 A)
<i>Outputs Diagnostics</i>	Short circuit and Overcurrent
<i>Operating Temperature</i>	-40...80 °C
<i>Storage Temperature</i>	-40...85 °C
<i>Protection Class</i>	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 J1939</p> <p>xDB16-PWM</p>	
d	DCN F750	09.09.21	FSa	Originator	01.18.17	JNa	<p>Art. No.: DP-34044-3-000</p>	
d	DCN F715	07.14.21	FSa	Approved	02.10.17	KGu		
c	DCN F257	04.07.20	FSa				<p>Sheet</p> <p>1 of 5</p>	
b	DCN F208	03.13.20	FSa	<p>A Murrelektronik Company</p>				
Rev.	Description	Date	Name					
a	Initial release	02.10.17	JNa	DP-34044-3-000_db_e_e.docx			<p>The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.</p>	

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)

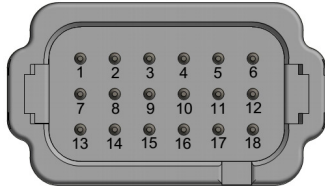
Color

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>

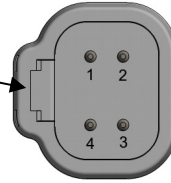
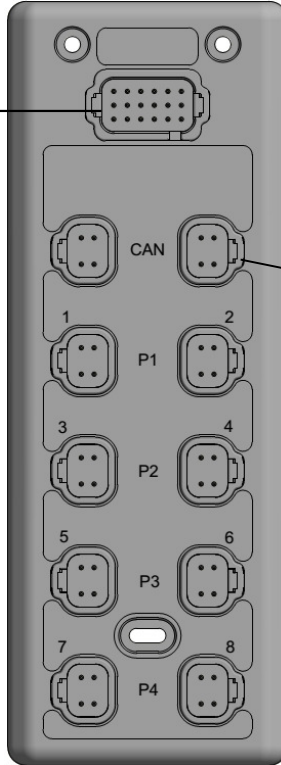
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Connector Interface



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

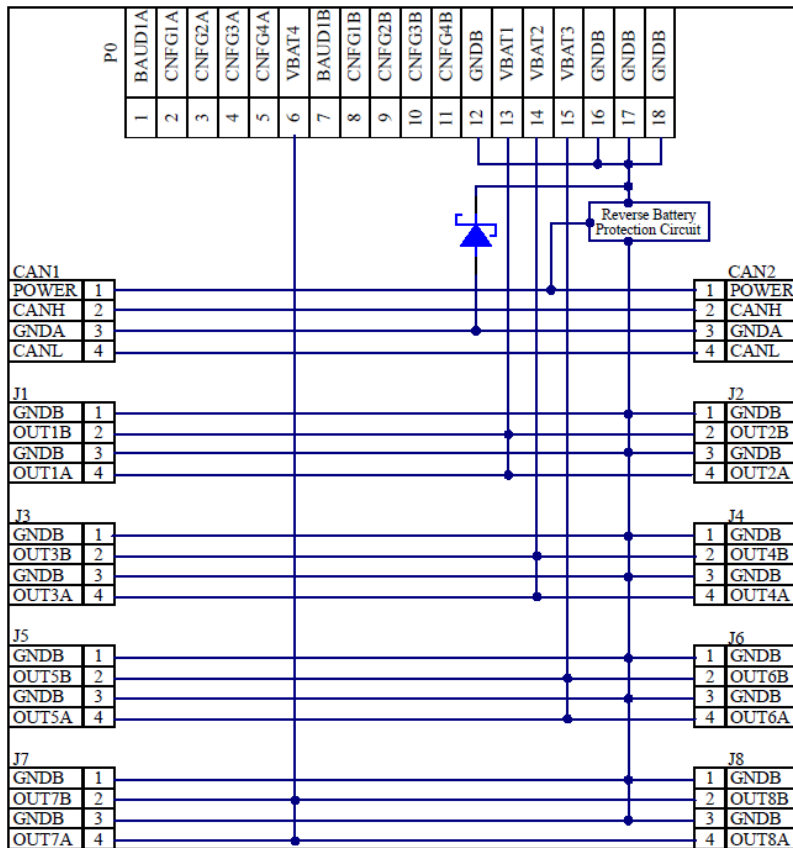
- Pin 1 = POWER
- Pin 2 = CAN HIGH
- Pin 3 = GROUND A
- Pin 4 = CAN LOW

OUTPUT Ports 1 to 8

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

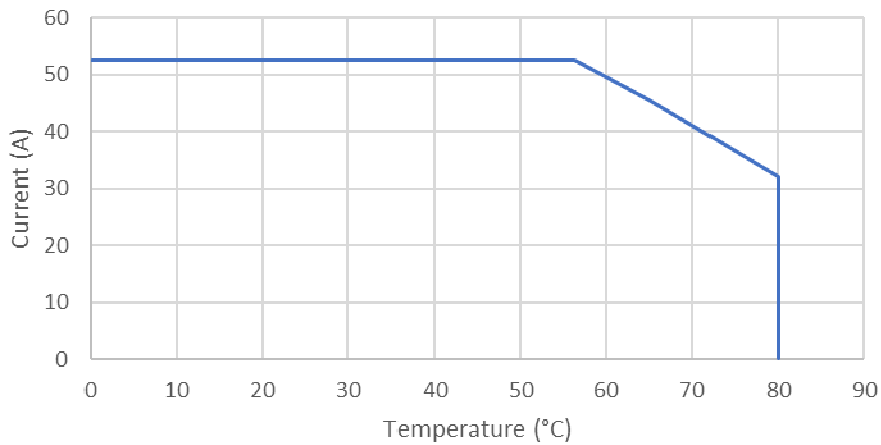
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DP-34044-3-XXX I/O Diagram



Derating Curve Max Total Current

Derating curve for 34044-3



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Test Standards and Regulation

<i>Climatic test</i>	<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>
<i>Mechanical test</i>	<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>
<i>Electrical test</i>	<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>
<i>CE</i>	<i>RoHS: Directive 2011/65/EU</i> <i>EMI/EMC: Directive 2014/30/EU</i>

Article Numbers

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



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