

Data Sheet

<p>DP-34044-1-xxx</p> <p>xtremeDB</p> <p>xDB0808-DIO</p> <p>Molded Plastic</p> <p>I/O Module Digital and Analog</p> <p>J1939 / CANOpen / DPLogic</p> <p>8...32 Vdc</p>	
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Technical Data


<i>Housing</i>	<i>Molded plastic</i>
<i>Dimensions (l x w x h)</i>	3.80 x 10.43 x 1.34 inch (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>Connections</i> <i>Operating Voltage, Ground, and Configuration</i> <i>I/O Ports</i>	18 Pole Socket DT16-18SA 4 Pole Socket 10 x DT06-4S
<i>Deutsch® size 20 Socket</i>	0462-201-20141
<i>Deutsch® size 16 Socket</i>	0462-201-16141
<i>Deutsch® Seal Plug</i>	114017-ZX
<i>Operating Voltage</i>	8-32 Vdc
<i>Operating Current</i>	13.5 Amps continuous per pin max. 26 Amps max node current
<i>Communication Interface and Baud Rate</i>	2 non-isolated J1939 ports (250kb & 500kb)
<i>Node ID</i>	Base Source Address 224d (0xE0h) Offset 1-15
<i>Total Inputs and Outputs</i>	16 (8 Inputs & 8 Outputs)
<i>Inputs Diagnostics</i>	Over voltage and sensor power over current
<i>Outputs Diagnostics</i>	Short circuit and over current
<i>Operating Temperature</i>	-40...80 °C
<i>Storage Temperature</i>	-45...85 °C
<i>IP67</i>	Connector seal plugs required for unused pins. Sealing plugs required for unused ports.

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				Originator	02.08.16	JNa			
d	DCN F208	03.13.20	FSa	Approved	09.21.16	KGu			
c	Details corrected	10.26.16	JNa	<p>A Murrelektronik Company</p>					
b	Labels added	10.14.16	JNa						
Rev.	Description	Date	Name						
a	Initial release	09.21.16	JNa	DP-34044-1-xxx_db_e_d.docx					

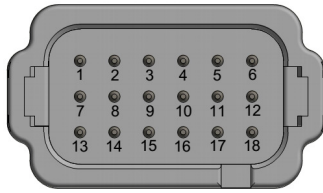
Characteristics of the input / output ports

<i>Inputs Digital</i>	<i>Positive switching</i>	>0.8 Vdc
	<i>Positive counter</i>	Port7 Pin-4, Port8 Pin-4 10 – 3000 Hz
	<i>Ground switching</i>	<0.3 Vdc
	<i>Input resistance</i>	0.71 MΩ
	<i>Input frequency</i>	8 mSec
<i>Inputs Analog</i>	<i>Voltage Input</i>	
	<i>Input voltage</i>	0...5 Vdc 0...10 Vdc 0...32 Vdc
	<i>Resolution</i>	12 bit
	<i>Input resistance</i>	3.3 MΩ
	<i>Input frequency</i>	14 mSec
	<i>Accuracy</i>	1% Full Scale
	<i>Current Input</i>	
	<i>Input current</i>	4-20 mAmp
	<i>Resolution</i>	12 bit
	<i>Input resistance</i>	162 Ω
	<i>Input frequency</i>	14 mSec
<i>Accuracy</i>	1% Full Scale	
	<i>Ratiometric Input</i>	0-1000 (0-100.0%)
<i>Outputs</i>	<i>Digital Output</i>	
	<i>Output voltage</i>	8...32 Vdc
	<i>Switching current</i>	4 Amps
	<i>PWM & PWM(i) Output</i>	
	<i>PWM frequency</i>	40-1100 Hz
	<i>PWM(i) frequency</i>	100-700 Hz
	<i>Switching current</i>	4 Amps

<i>Operating States (LEDs)</i>	<i>Color</i>	<i>Status</i>
<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>IN</i>	<i>Yellow</i>	<i>Left LED – Input A</i> <i>Right LED – Input B</i>
<i>OUT</i>	<i>Yellow</i>	<i>Left LED – Output A</i> <i>Right LED – Output B</i>

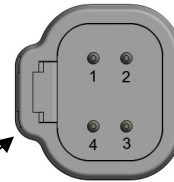
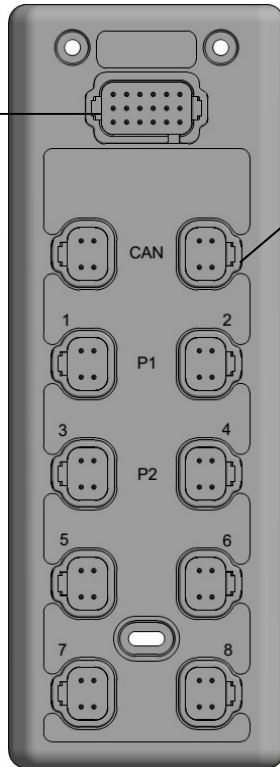
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Connector Interface



Connections:

1. Baud 1-A
2. Config 1-A
3. Config 2-A
4. Config 3-A
5. Config 4-A
6. N/C
7. Baud 1-B
8. Config 1-B
9. Config 2-B
10. Config 3-B
11. Config 4-B
12. Ground B
13. Power 1
14. Power 2
15. N/C
16. Ground B
17. Ground B
18. Ground B



Connections:


- CAN Port 1 & 2**
 Pin 1 = 8 - 32V DC
 Pin 2 = CAN High
 Pin 3 = Ground A
 Pin 4 = CAN Low

OUTPUT Ports 1 to 4

- Pin 1 = Ground B
 Pin 2 = Output B
 Pin 3 = Ground B
 Pin 4 = Output A

INPUT Ports 5 to 8

- Pin 1 = 8 - 32V DC
 Pin 2 = Input B
 Pin 3 = Ground A
 Pin 4 = Input A

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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</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>

Article Numbers

DP-34044-1-000	J1939 Slave Module
DP-34044-1-100	DPLogic enabled Master, user programmable
DP-34044-1-200	CANOpen Slave module



DPLogic™

User function / logic generating and programming tool for creating vehicle personality. Similar to Ladder Logic with user enhanced features for troubleshooting and diagnostics.

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