

# Data Sheet

<p><b>DP-34044-7-xxx</b></p> <p><b>xtremeDB</b></p> <p><b>xDB08-PVE</b></p> <p><b>Molded Plastic</b></p> <p><b>I/O Module</b></p> <p><b>Ratiometric with Error Input</b></p> <p><b>J1939</b></p> <p><b>8...32 Vdc</b></p>	
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## Technical Data

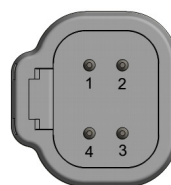
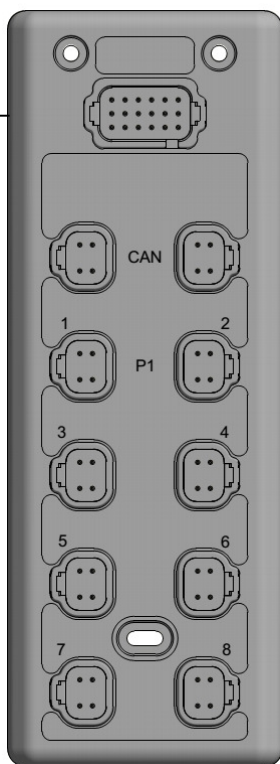
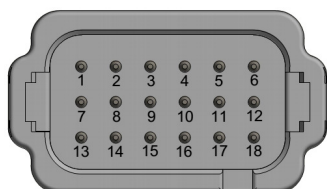
<i>Housing</i>	Molded plastic
<i>Dimensions (l x w x h)</i>	3.80 x 10.43 x 1.34 inch (97 x 265 x 34 mm)
<i>Weight</i>	1.5 lbs (0.68 Kg)
<i>Installation (mounting hardware not included)</i>	Screw: 3 x #10 (3 x M5) Torque: 21 in-lbs (2.4 nm) max.
<i>Connections</i> <i>Operating Voltage, Ground, and Configuration</i> <i>I/O Ports</i>	18 Pole Socket DT16-18SA 4 Pole Socket 10 x DT06-4S
<i>Deutsch® size 20 Socket</i> <i>Deutsch® size 16 Socket</i> <i>Deutsch® Seal Plug</i>	0462-201-20141 0462-201-16141 114017-ZX
<i>Operating Voltage</i>	8-32 Vdc
<i>Operating Current</i>	13.5 Amps continuous per pin max. 40.5 Amps node current max.
<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 Outputs</i>	16
<i>Output Type</i>	14 digital positive, 8 ratiometric
<i>Input</i>	8 Digital Positive/Negative (>8.0 Vdc / <0.3Vdc)
<i>Outputs Diagnostics</i>	Short circuit and overcurrent
<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.

					Date	Name	<p><b>Data Sheet</b></p> <p><b>xtremeDB IO Module</b></p> <p><b>xDB08-PVE</b></p>	
				Originator	06.04.18	JNa		
				Approved	9.17.19	Fsa		
c	DCN F208	03.13.20	Fsa				<p><b>Art. No.: DP-34044-7-xxx</b></p>	
b	Port Configuration	09.17.18	JNa	<p><b>A Murrelektronik Company</b></p>				Sheet
Rev.	Description	Date	Name					1 of 3
a	Init Release	06.04.18	JNa	DP-34044-7-xxx_db_e_c.docx				

### Characteristics of the outputs ports

<b>Outputs</b>	<b>Voltage Output</b>	
	Output Voltage	8...32 Vdc
	Switching Current	3A
<b>Operating States (LEDs)</b>		
	<b>Color</b>	<b>Status</b>
<b>PWR</b>	Blue	Module and Ports power are connected
<b>COM &amp; STAT</b>	Green	Module and Communication status
<b>FLT</b>	Red	Fault Status
<b>OUT</b>	Yellow	Left LED – Output A Right LED – Output B

### Connector Interface



**Connections:**

1. Baud 1-A
2. Config 1-A
3. Config 2-A
4. Config 3-A
5. Config 4-A
6. NC - Reserved
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 P1
14. Power P1
15. Power P1
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 = NC  
 Pin 4 = CAN Low


**OUTPUT Ports 1 to 8 (Ratiometric)**

- Pin 1 = Demand Signal ( $U_s$ )  
 Pin 2 = Error Signal (Input)  
 Pin 3 = Ground  
 Pin 4 = Sensor Power ( $U_{DC}$ )

**OUTPUT Ports 3 to 8 (Digital)\*\***

- Pin 1 = Output A ( $U_{DC\_A}$ )  
 Pin 2 = Ground  
 Pin 3 = Ground  
 Pin 4 = Output B ( $U_{DC\_B}$ )

\*\*Note that Port 1 and Port 2 can not be used for PVEO


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<b>Test Standards and Regulation</b>	
<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-34044-7-000	J1939 Slave Module
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c	DCN F208	03.13.20	Fsa	 <b>A Murrelektronik Company</b>			<b>Art. No.: DP-34044-7-xxx</b>	<i>Sheet</i>
b	Port Configuration	09.17.18	JNa					3 of 3
Rev.	Description	Date	Name					
a	Init Release	06.04.18	JNa	DP-34044-7-xxx_db_e_c.docx				