

Data Sheet

DP-34044-2-xxx

xtremeDB

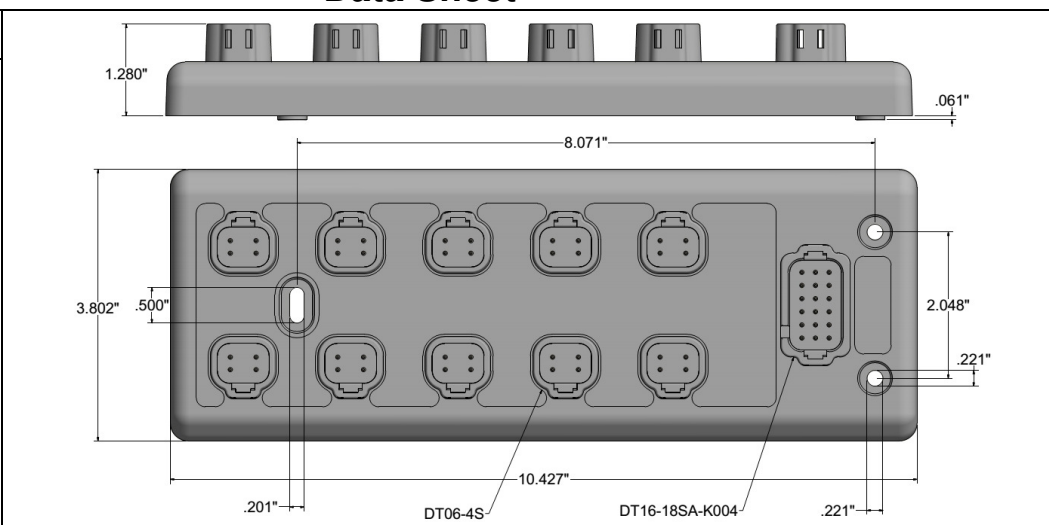
xDB16-ADI

Molded Plastic

Input Module
Digital and Analog


J1939 / CANOpen

8...32 Vdc




Technical Data

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

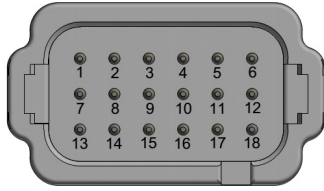
				Date	Name	Data Sheet	xtremeDB Input Module xDB16-ADI
			Originator	09.09.16	JNa		
d	DCN F208	03.13.20	FSa	Approved	09.21.16		
c	Details corrected	10.26.16	JNa	 A Murrelektronik Company			Art. No.: DP-34044-2-xxx
b	Labels added	10.14.16	JNa				
Rev.	Description	Date	Name	DP-34044-2-xxx_db_e_d.docx			
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<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 Right LED – Input B</i>

<i>Characteristics of the inputs / outputs ports</i>	
<i>Inputs Digital</i>	<p><i>Positive switching</i> >0.8 Vdc <i>Positive counter</i> Port7 Pin-4, Port8 Pin-4 10 – 3000 Hz</p> <p><i>Ground switching</i> <0.3 Vdc <i>Input resistance</i> 0.71 MΩ <i>Input frequency</i> 8 mSec</p>
<i>Inputs Analog</i>	<p><i>Voltage Input</i> <i>Input voltage</i> 0...5 Vdc 0...10 Vdc 0...32 Vdc</p> <p><i>Resolution</i> 12 bit <i>Input resistance</i> 3.3 MΩ <i>Input frequency</i> 14 mSec <i>Accuracy</i> 1% Full Scale</p> <p><i>Current Input</i> <i>Input current</i> 4-20 mAmp <i>Resolution</i> 12 bit <i>Input resistance</i> 3.3 MΩ <i>Input frequency</i> 14 mSec <i>Accuracy</i> 1% Full Scale</p> <p><i>Ratiometric Input</i> 0-1000 (0-100.0%)</p>

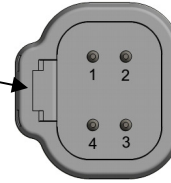
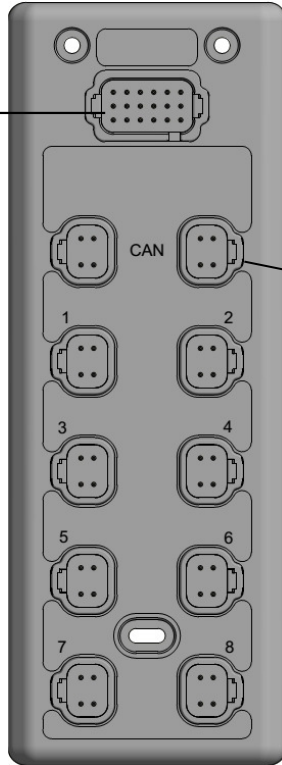
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Connector Interface



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. N/C
13. N/C
14. N/C
15. N/C
16. N/C
17. N/C
18. N/C




Connections:

CAN Port 1 & 2

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

INPUT Ports 1 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-34044-2-000	J1939 Slave Module
DP-34044-2-200	CANOpen Slave module



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