

Data Sheet

DP-34044-1

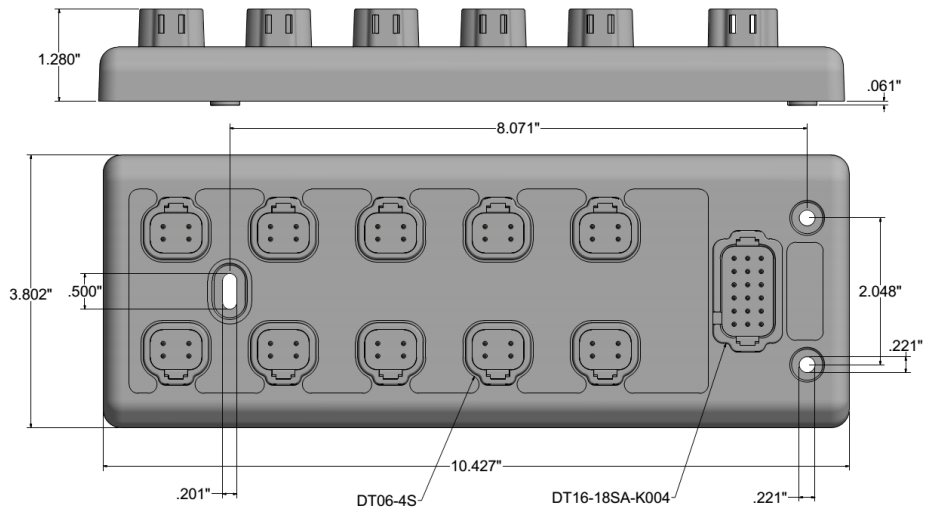
XtremeDB Module

Molded Plastic

**I/O module
Digital and Analogue**

J1939 Interface


8...32Vdc



Technical Data

**8 Configurable Inputs (4 Digital / 4 Analog/Digital)
8 Configurable Outputs (Digital (+), PWM,
PWM(I))**


Housing	Molded plastic
Dimensions (l x W x h)	3.802 x 10.427 x 1.341 inch
Installation	Screw connection 3 x M5
Connections Operating Voltage and CAN bus Inputs / Outputs CAN in/out	18 pole DT16-18SA Socket 8 x DT06-4S 2 x DT06-4S
Weight	1.5 lb
Operating Voltage	8-32Vdc
Switching Current	4A
Communication Interface and Baud Rate	2 non-isolated J1939 ports (250kb & 500kb)
Node ID	0-15
Total Inputs and Outputs	16 (8 Inputs & 8 Outputs)
Inputs (configurable)	Each input has 2 configurable input connections (Input A - Pin4 & Input B - Pin2) Input A - Digital positive switching, Digital ground switching (2 inputs 7A&8A with frequency/encoder) Input B - Digital positive switching, Digital ground switching, 4-20mA, 0-5VDC, 0-10VDC, 0-32Vdc, Ratiometric
Inputs resolution	12 bit, 1% full scale accuracy
Outputs (configurable)	8 Digital (+), PWM, PWM(I),
PWM Frequency	100-1200hz
Outputs Diagnostics	Short circuit and Overcurrent
Operating Temperature	-40...85 °C
Storage Temperature	-45...85 °C
Protection	IP67

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				Originator	02.08.16			JNa
				Approved	09.21.16			KGu
b	Labels added	10.14.16	JNa					
Rev.	Description	Date	Name					
a	Initial release	09.21.16	JNa					
				10/14/2016	DP-34044-1db.doc	Art. No.: DP-34044-1		
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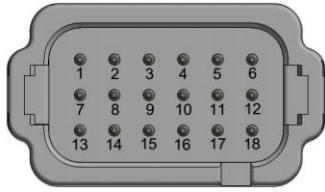
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Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports power are connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
IN	Yellow	Left LED – Input A Right LED – Input B
OUT	Yellow	Left LED – Output A Right LED – Output B

Characteristics of the inputs / outputs ports	
Inputs Digital	Positive switching >0.8V Ground switching <0.3V Input resistance 0.71MΩ Input frequency 8 mSec
Inputs Analog	Voltage Input Input Voltage 0...5VDC 0...10VDC 0...32Vdc Resolution 12 bit Input resistance 3.3MΩ Input frequency 14 mSec Accuracy 1% Full Scale Current Input Input Current 4-20mA Resolution 12 bit Input resistance 3.3MΩ Input frequency 14 mSec Accuracy 1% Full Scale Ratiometric Input 0-1000 (0-100%)
Outputs	Voltage Output Output Voltage 8...32Vdc Switching Current 4A Total Current max. 26A PWM & PWM(I) Output PWM Frequency 100-1200hz Switching Current 4A

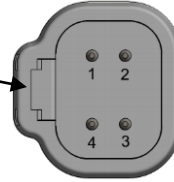
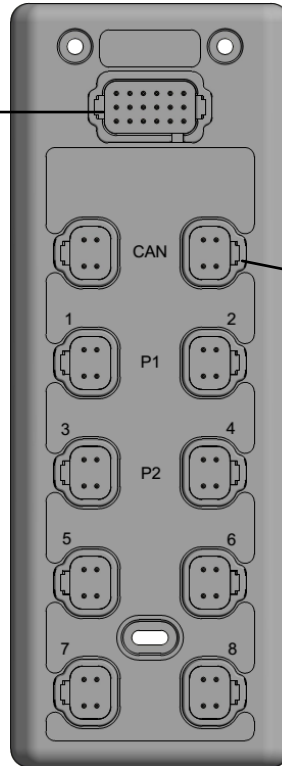
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Connecting elements



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 - 32Vdc
 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 - 32Vdc
 Pin 2 = Input B
 Pin 3 = Ground A
 Pin 4 = Input A

Test standards and regulation

<i>Climatic test</i>	<i>Temperature Shock to EN 60068-2-14:2000-08</i>
<i>Mechanical resistance test</i>	<i>Vibration to JDQ 53.3 6.1.1 & 6.1.2, level 4 Shock to EN 60068-2-27:2009, test Ea Bump to EN 60068-2-29:2009, test Eb IP protection to EN 60529:2000-09, test IP67</i>

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