

Data Sheet

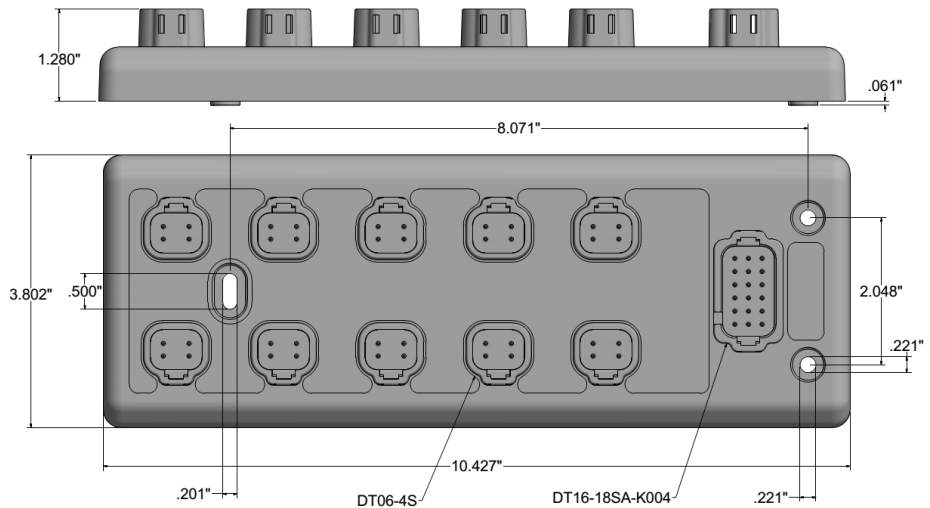
DP-34044-7-000

xtremeDB Module

**PVG Valve Driver
Ratiometric Output**

J1939 Interface

8...32V DC



Technical Data

Special xtremeDB variant that acts as a PVG Valve Driver providing ratiometric or digital output signals to drive up to 8 PVE's. PVE can be of type PVEA, PVEH, PVES, or PVEO

Housing	Molded plastic
Dimensions (l x W x h)	3.8" x 10.4" x 1.3"
Installation	0.2" X 0.75" through hole, M3 or #10
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	8-32V DC
Switching Current	(8) 3A, (8) 100mA
Communication Interface and Baud Rate	2 non-isolated J1939 ports (250kb & 500kb)
Node ID	0-15
Total Outputs	16
Output Type	14 digital positive, 8 ratiometric
Input	8 Digital Positive/Negative (>8.0 Vdc / <0.3Vdc)
Output Protection	Short circuit and Overcurrent, Integrated fly-back diode
Operating Temperature	-40...80 °C
Storage Temperature	-45...85 °C
Protection	IP67

Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports power are connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
OUT	Yellow	Left LED – Output A Right LED – Output B

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				Originator	06.04.18	JNa	
				Approved	9.17.19	Fsa	
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b	Port Configuration	9/17/2019		Art. No.: DP-34044-7-000			Sheet 1 of 2
Rev.	Description	Date	Name				
a	Init Release	9/16/2019	9/17/2019 DP-34044-7db rev b				

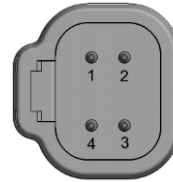
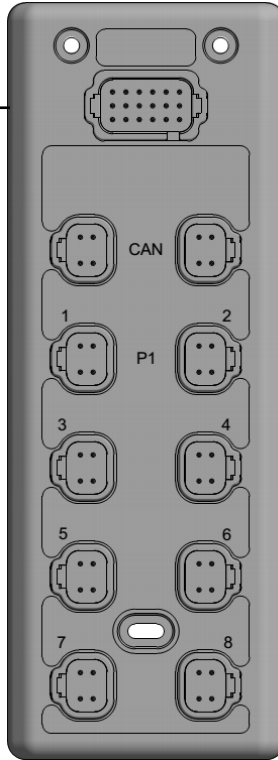
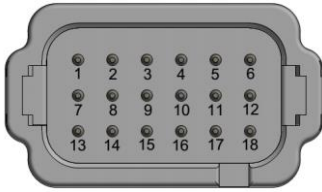
Characteristics of the outputs ports

Outputs

Voltage Output

Output Voltage	8...32V DC
Switching Current	3A
Total Current	max. 26A

Connecting elements



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

Test standards and regulation

Climatic test

Temperature Shock to EN 60068-2-14:2000-08

Mechanical resistance test

Vibration to IEC 60068-2-6, test Fc
 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



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