

Data Sheet

DP-34044-4-000

xtremeDB

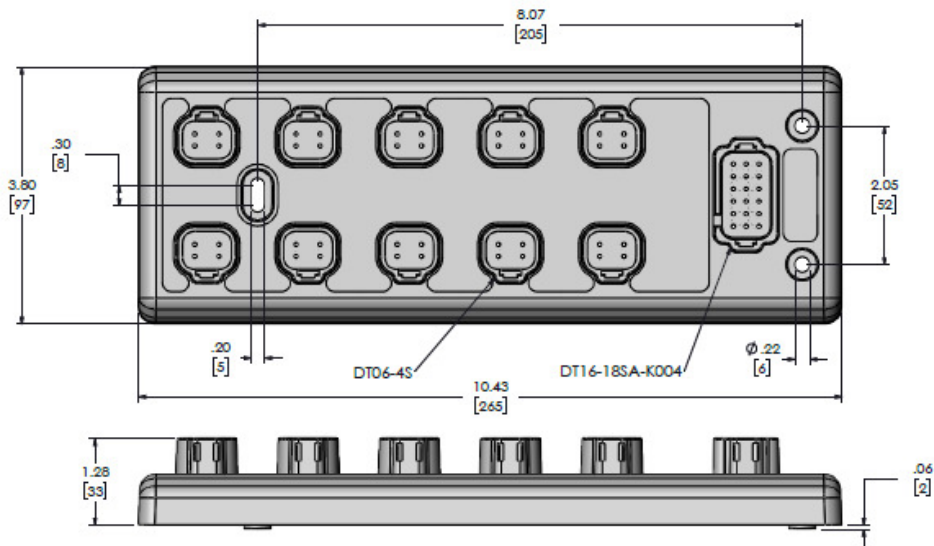
xDB16-PWMI

Molded Plastic

**Output Module
Digital and PWM(i)**

J1939

8...32 Vdc



Technical Data

Housing	Molded glass filled nylon
Dimensions (l x w x h)	3.80 x 10.43 x 1.34 in (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.
Mating Connectors and Accessories Operating Voltage, Ground, and Configuration I/O-Ports	18 Pole Plug DT16-18SA or equivalent 4 Pole Plug 10 x DT06-4S or equivalent DEUTSCH size 20 Socket DEUTSCH size 16 Socket DEUTSCH Seal Plug
Cable Length	98.4 ft (30 m) max.
Operating Voltage	8...32 V DC protected against reverse polarity
Operating Current	13 A continuous per pin max. 52 A node current max.
Communication Interface and Baud Rate	2 non-isolated J1939 ports 250kb (default) & 500kb
Source Address	Base Address 224d (0xE0h) Offset 0...15 (J0: CNFGx-A/B)
Total Outputs	16 (12 paired 4 A, 2 x 4 A, 2 x 10 A)
Outputs Diagnostics	Short circuit and Overcurrent
Operating Temperature	-40...80 °C
Storage Temperature	-40...85 °C
Protection Class	IP67: Connector seal plugs required for unused pins. Sealing plugs required for unused ports IP68/IP69K: Using Murrelektronik MDC xtreme cables.

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e	DCN F363	08.11.20	FSa	Originator	08.09.16	JNa			
d	DCN F208	03.13.20	FSa	Approved	09.21.16	KGu			
c	Details corrected	10.26.16	JNa	DATA PANEL A Murrelektronik Company					
b	Labels added	10.14.16	JNa				Art. No.: DP-34044-4-000		Sheet 1 of 4
Rev.	Description	Date	Name						
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Characteristics of the output ports

Outputs

Digital Output

Output voltage	8...32 Vdc
Switching current	4 Amps
	10 Amps (Port1A Pin-4)
	10 Amps (Port3A Pin-4)

PWM & PWM(i) Output

PWM frequency	40-1100 Hz
PWM(i) frequency	100-700 Hz
Switching current	4 Amps

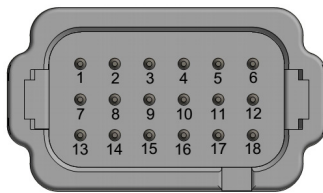
Operating States (LEDs)

Color

Status

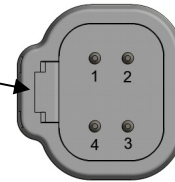
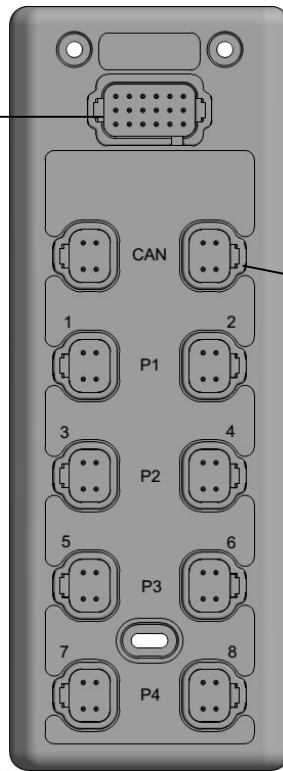
PWR	Blue	Module and Ports power are connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
P1 – P4	Blue	Bus Power (Port Output Power)
OUT	Yellow	Left LED – Output A Right LED – Output B

Connector Interface



Connections J0:

1. BAUD1-A
2. CNFG1-A
3. CNFG2-A
4. CNFG3-A
5. CNFG4-A
6. BATTERY P4
7. BAUD1-B
8. CNFG1-B
9. CNFG2-B
10. CNFG3-B
11. CNFG4-B
12. GROUND B
13. BATTERY P1
14. BATTERY P2
15. BATTERY P3
16. GROUND B
17. GROUND B
18. GROUND B



Connections:

CAN Port 1 & 2

- Pin 1 = POWER
- Pin 2 = CAN HIGH
- Pin 3 = GROUND A
- Pin 4 = CAN LOW

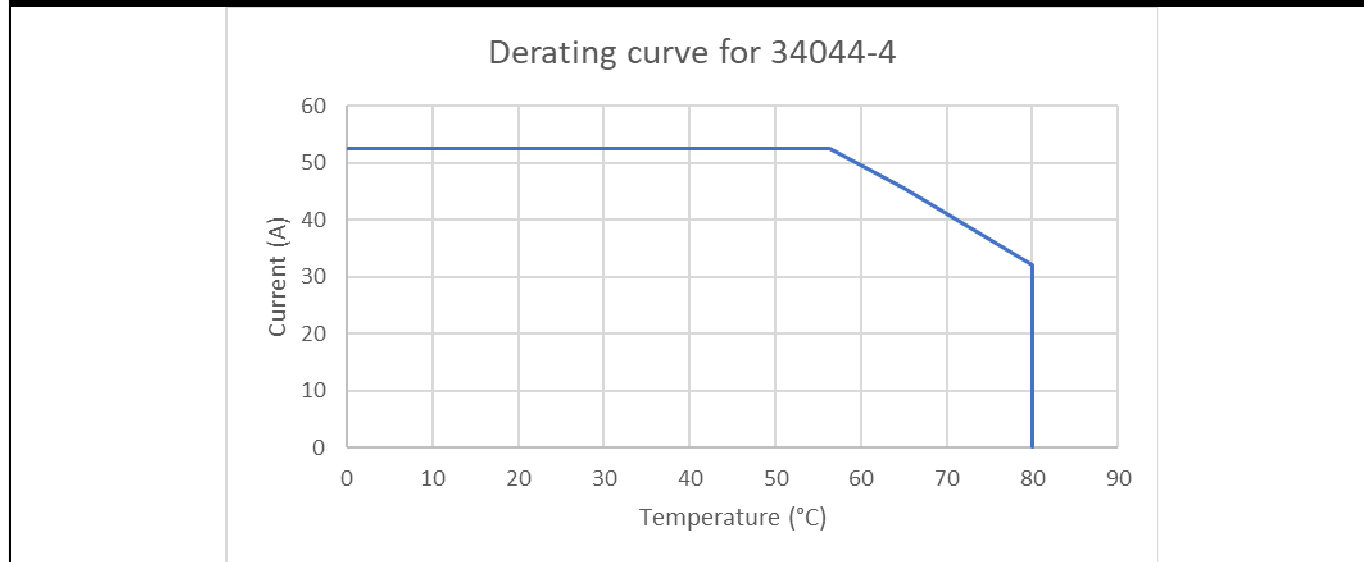
OUTPUT Ports 1 to 8

- Pin 1 = GROUND B
- Pin 2 = OUTPUT B
- Pin 3 = GROUND B
- Pin 4 = OUTPUT 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, IP68, IP69K</i> <i>Chemical Loads to ISO 16750-5:2010 Part 5: AA, BA, BC, BD, BE, CC, DB, DD</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>
<i>CE</i>	<i>RoHS: Directive 2011/65/EU</i> <i>EMI/EMC: Directive 2014/30/EU</i>

Derating Curve Max Total Current



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Article Numbers	
DP-34044-4-000	J1939 Slave Module
DP-34044-4-200	CANOpen Slave module
  	

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