

## Data Sheet

<p><b>DP-34044-5-000</b></p> <p><i>xtremeDB</i></p> <p><i>xDB16-DO</i></p> <p><b>Molded Plastic</b></p> <p><b>Output Module</b></p> <p><b>Digital</b></p> <p><b>J1939</b></p> <p><b>8...32 V DC</b></p>	<p>The drawing shows a rectangular module with two rows of connectors. The top row has five 4-pin connectors (DT06-4S) and one 18-pin connector (DT16-18SA-K004). The bottom row has five 4-pin connectors. Dimensions are provided in inches and millimeters: overall length 10.43 [265], overall width 3.80 [97], and height 1.28 [33]. Specific dimensions include 8.07 [205] for the top section, 2.05 [52] for the right side, 0.30 [8] for the top edge, 0.20 [5] for the bottom edge, and 0.22 [6] for the connector diameter.</p>
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### Technical Data

<i>Housing</i>	Molded glass filled nylon
<i>Dimensions (l x w x h)</i>	3.80 x 10.43 x 1.34 in (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>Mating Connectors and Accessories</i> <i>Operating Voltage, Ground, and Configuration</i> <i>I/O-Ports</i>	18 Pole Plug DT16-18SA or equivalent 4 Pole Plug 10 x DT06-4S or equivalent
<i>DEUTSCH® size 16 Socket</i>	0462-201-16141 (16 – 20 AWG) 1062-16-0122 (14 – 18 AWG) 114017
<i>DEUTSCH® Seal Plug</i>	
<i>Cable Length</i>	98.4 ft (30 m) max.
<i>Operating Voltage</i>	8...32 V DC protected against reverse polarity
<i>Operating Current</i>	13 Amps continuous per pin max. 52 Amps node current max.
<i>Communication Interface and Baud Rate</i>	2 non-isolated J1939 ports 250kb (default) & 500kb
<i>Source Address</i>	Base Address 224d (0xE0h) Offset 0...15 (J0: CNFGx-A/B)
<i>Total Outputs</i>	16
<i>Outputs Diagnostics</i>	Short circuit and Overcurrent
<i>Operating Temperature</i>	-40...80 °C
<i>Storage Temperature</i>	-40...85 °C
<i>Protection Class</i>	IP67: Connector seal plugs required for unused pins. Sealing plugs required for unused ports. IP68/IP69K: Using Murrelektronik MDC xtreme cables.

e	DCN 6022	08.28.23	AH		Date	Name	<p><b>Data Sheet</b></p> <p><b>xtremeDB Output Module J1939</b></p> <p><b>xDB16-DO</b></p>	
d	DCN F750	09.09.21	FSa	Originator	01.20.17	JNa		
d	DCN F715	07.14.21	FSa	Approved	02.10.17	KGu		
c	DCN F257	04.07.20	FSa	<p><b>A Murrelektronik Company</b></p>				
b	DCN F208	03.13.20	FSa				<p><b>Art. No.: DP-34044-5-000</b></p>	<p>Sheet</p> <p>1 of 5</p>
Rev.	Description	Date	Name					
a	Initial release	02.10.17	JNa	<p>DP-34044-5-000_db_e_e</p>				
								<p>The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.</p>

### Characteristics of the Output Ports

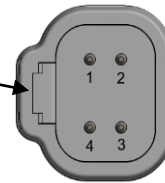
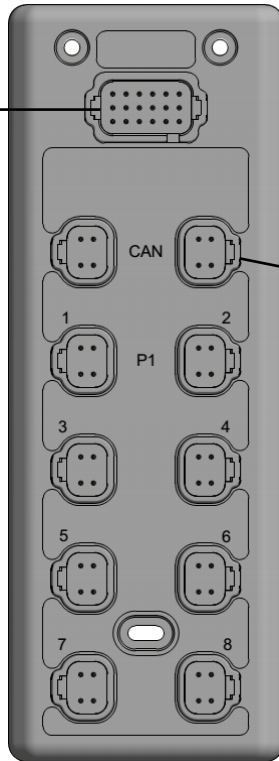
<b>Outputs</b>	<b>Digital Output</b>	
	Output voltage	8...32 V DC
	Switching current	4 Amps 10 Amps (Port1 A Pin-4) 10 Amps (Port3 A Pin-4)
Operating States (LEDs)		
Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports BATTERY Pare connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
P1	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 P1
7. BAUD1-B
8. CNFG1-B
9. CNFG2-B
10. CNFG3-B
11. CNFG4-B
12. GROUND B
13. BATTERY P1
14. BATTERY P1
15. BATTERY P1
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**

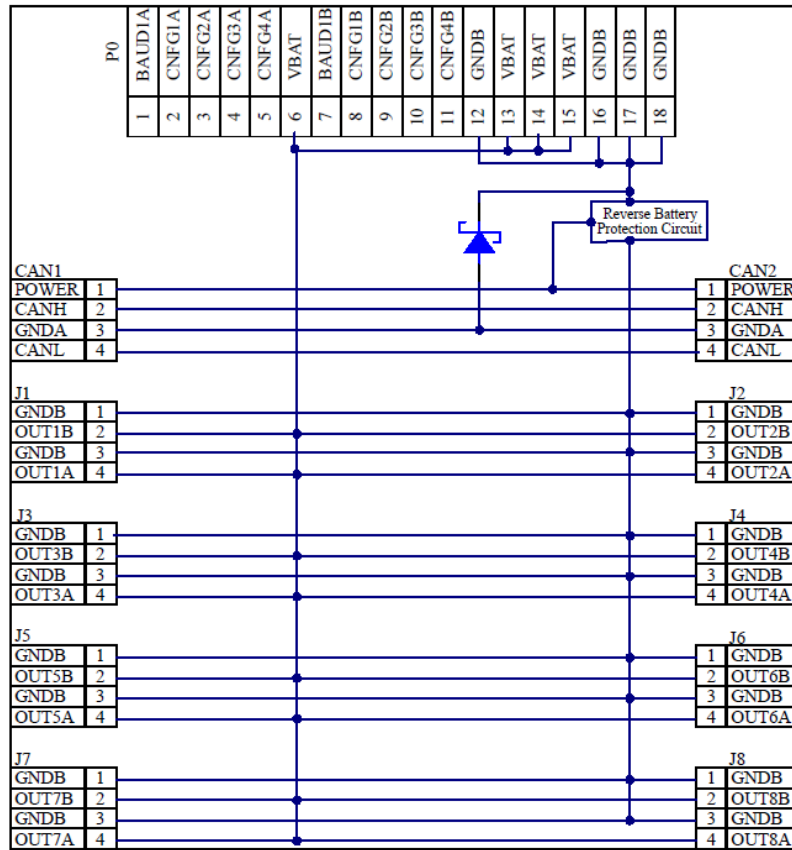
- Pin 1 = GROUND B
- Pin 2 = OUTPUT B
- Pin 3 = GROUND B
- Pin 4 = OUTPUT A



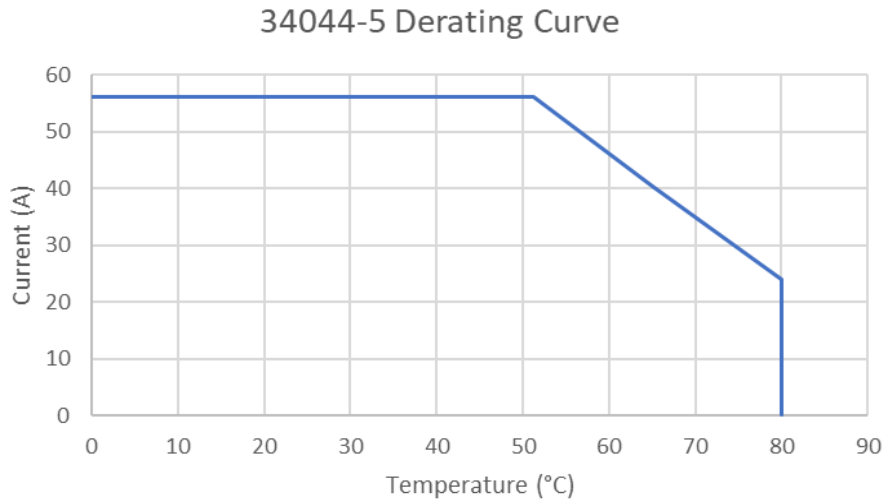
**Proper installation and operation of the xtremeDB blocks requires the use of all ground connections. This includes Ground (A) for module power and Ground (B) for port power on the 18 pin configuration and power plug.**


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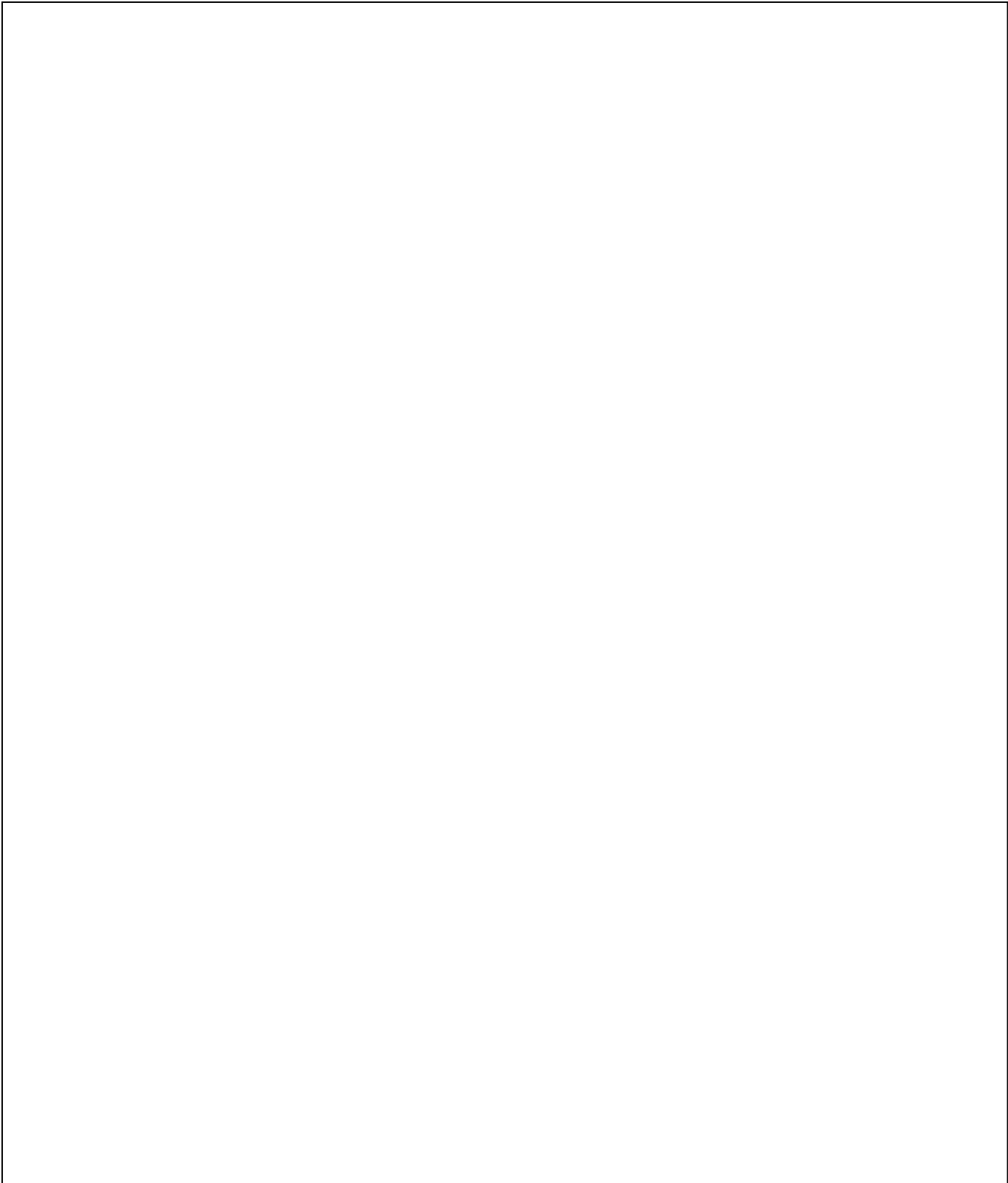
DP-34044-5-XXX I/O Diagram




Derating Curve Max Total Current



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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>

### Article Numbers

DP-34044-5-000	J1939 Slave Module
DP-34044-5-100	DPLoLogic enabled Master, user programmable
DP-34044-5-200	CANopen Slave module



**DPLoLogic™**

User function / logic generating and programming tool for creating vehicle personality. Similar to Ladder Logic with user enhanced features for troubleshooting and diagnostics.



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