

Data Sheet

DP-34044-1-200

xtremeDB

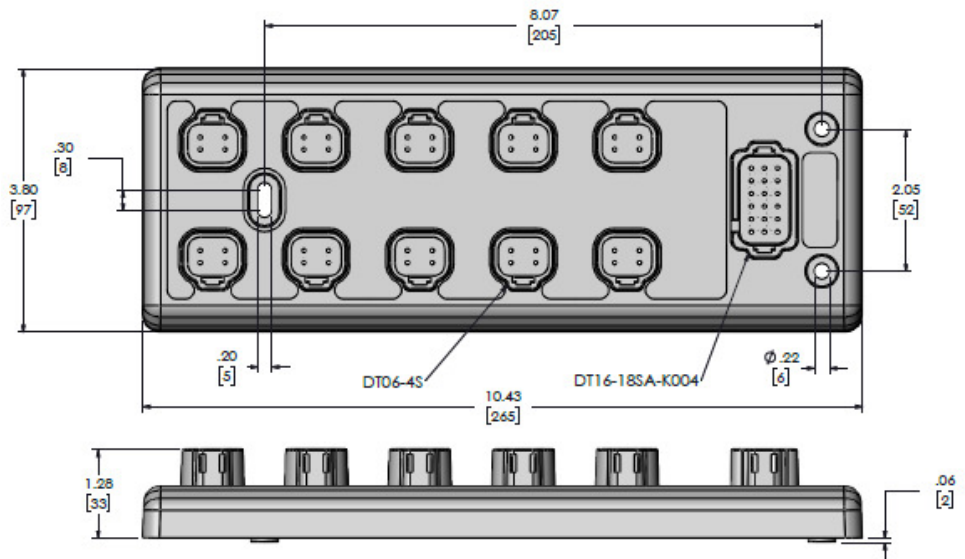
xDB0808-DIO

Molded Plastic

I/O Module
Digital and Analog

CANopen

8...32 Vdc



Technical Data

Housing	Molded glass filled nylon
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.
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 16 Socket	0462-201-16141
DEUTSCH® Seal Plug	0462-16-0122 114017
Cable Length	98.4 ft (30 m) max.
Operating Voltage	8...32 V DC protected against reverse polarity
Operating Current	13 Amps continuous per pin max. 26 Amps max node current
Communication Interface and Baud Rate	2 non-isolated CANopen 250kb (default) & 500kb
Node ID	Node ID = 1 Offset 0...15 (J0: CNFGx-A/B)
Total Inputs and Outputs	16 (8 Inputs & 8 x 4 Amp Outputs)
Inputs Diagnostics	Over voltage and sensor power over current
Output (sensor power)	1 Amp max.
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.

Rev.	Description	Date	Name	Date	Name	Data Sheet xtremeDB IO Module CANopen xDB0808-DIO	Art. No.: DP-34044-1-200	Sheet 1 of 5
d	DCN F750	09.09.21	FSa	Approved	05.13.20			
c	DCN F715	07.14.21	FSa					
b	DCN F363	08.11.20	FSa					
a	DCN F257	05.13.20	FSa					



The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.

Characteristics of the Input / Output Ports


Inputs Digital Port5: B, A Port6: B, A Port7: B, A Port8: B, A	<table> <tr> <td>Positive switching</td> <td>>0.8 V DC</td> </tr> <tr> <td>Ground switching</td> <td><0.3 V DC</td> </tr> <tr> <td>Input resistance</td> <td>Positive 10 kΩ Ground 470 kΩ</td> </tr> <tr> <td>Input response</td> <td>20 mSec</td> </tr> <tr> <td colspan="2">-----</td> </tr> <tr> <td colspan="2">Counter/Encoder Input</td> </tr> <tr> <td colspan="2">Port7 A & Port7 A</td> </tr> <tr> <td>Positive switching</td> <td>>0.8 V DC</td> </tr> <tr> <td>Frequency</td> <td>0-5000 Hz</td> </tr> <tr> <td>Default configuration</td> <td>Positive switching</td> </tr> </table>	Positive switching	>0.8 V DC	Ground switching	<0.3 V DC	Input resistance	Positive 10 kΩ Ground 470 kΩ	Input response	20 mSec	-----		Counter/Encoder Input		Port7 A & Port7 A		Positive switching	>0.8 V DC	Frequency	0-5000 Hz	Default configuration	Positive switching																		
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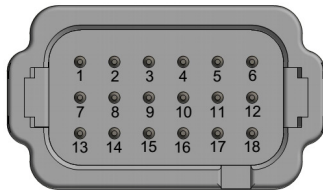
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			Originator	05.13.20	TMc			
d	DCN F750	09.09.21	FSa	Approved	05.13.20			FSa
c	DCN F715	07.14.21	FSa	 A Murrelektronik Company				
b	DCN F363	08.11.20	FSa					
Rev.	Description	Date	Name	DP-34044-1-200_db_e_d.docx		The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.		
a	DCN F257	05.13.20	FSa					

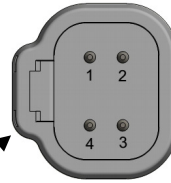
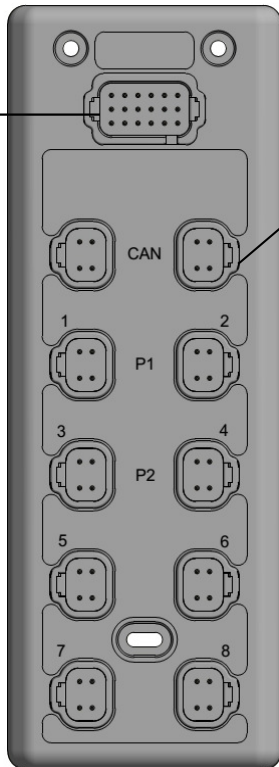
Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports power are connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
IN	Yellow	Left LED – Input A Right LED – Input B
OUT	Yellow	Left LED – Output A Right LED – Output B

Connector Interface



Connections J0:

1. BAUD1-A
2. CNFG1-A
3. CNFG2-A
4. CNFG3-A
5. CNFG4-A
6. NC
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. NC
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 4

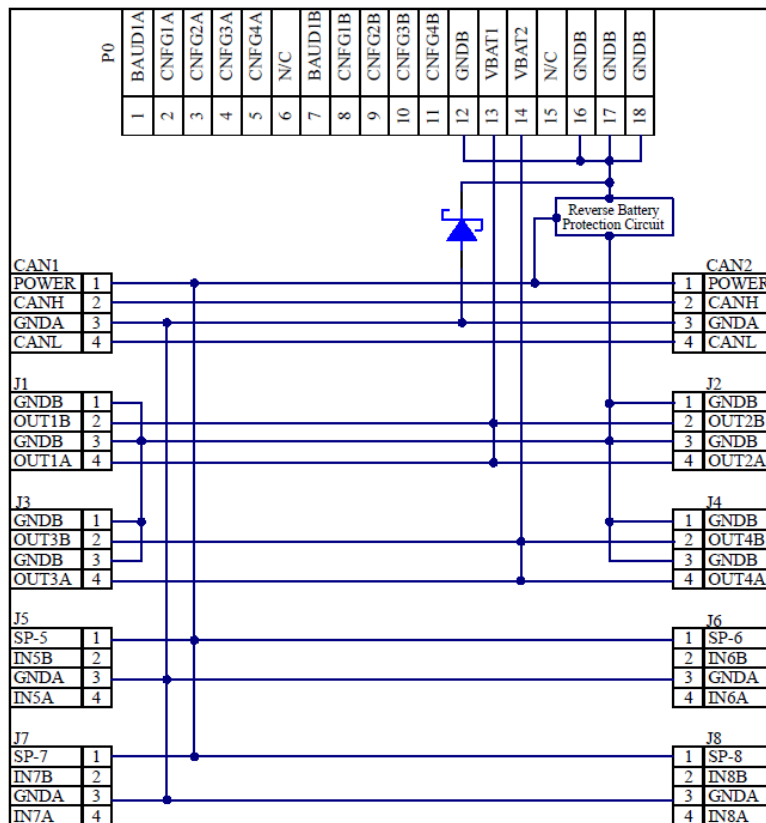
- Pin 1 = GROUND B
- Pin 2 = OUTPUT B
- Pin 3 = GROUND B
- Pin 4 = OUTPUT A

INPUT Ports 5 to 8

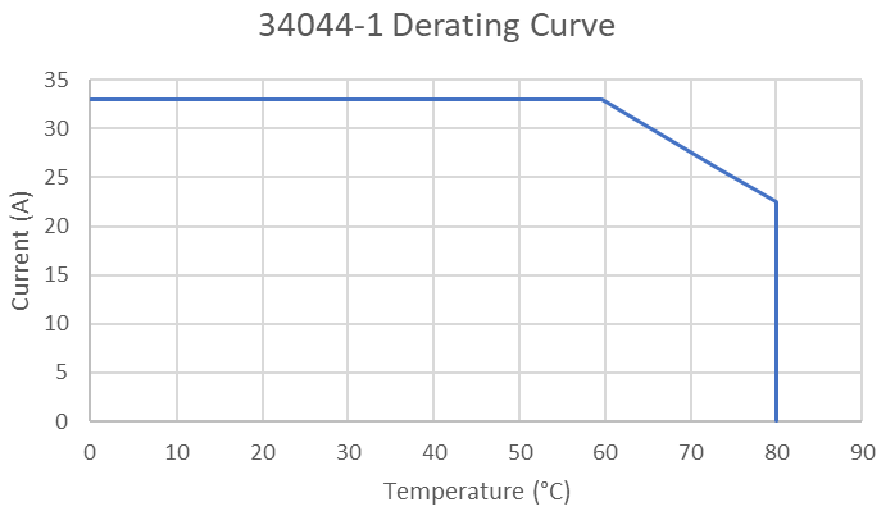
- Pin 1 = SENSOR POWER
- Pin 2 = INPUT B
- Pin 3 = GROUND A
- Pin 4 = INPUT A

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DP-34044-1-XXX I/O Diagram



Derating Curve Max Total Current



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Test Standards and Regulation

<i>Climatic Tests</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 Tests</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 Tests</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>

Article Numbers

DP-34044-1-000	J1939 Slave Module
DP-34044-1-100	DPLoLogic™ enabled Master, user programmable
DP-34044-1-200	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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