

Data Sheet

DP-34044-5-000 <i>xtremeDB</i> xDB16-DO Molded Plastic Output Module Digital J1939 8...32 V DC	<p style="text-align: center;"> Dimensions: 3.80 [97] (height), 10.43 [265] (width), 8.07 [205] (total width), 2.05 [52] (right side height), 1.28 [33] (bottom height), .30 [8] (top offset), .20 [5] (bottom offset), .06 [2] (bottom offset), $\phi .22$ [6] (hole diameter). Connector types: DT06-4S, DT16-18SA-K004. </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 0462-16-0122 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.

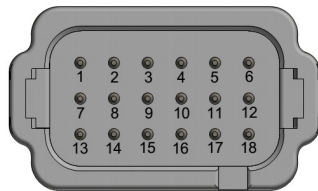
					Date	Name	Data Sheet xtremeDB Output Module J1939 xDB16-DO	
d	DCN F750	09.09.21	FSa	Originator	01.20.17	JNa	Art. No.: DP-34044-5-000	
d	DCN F715	07.14.21	FSa	Approved	02.10.17	KGu		
c	DCN F257	04.07.20	FSa	 A Murrelektronik Company				
b	DCN F208	03.13.20	FSa				Art. No.: DP-34044-5-000	<i>Sheet</i> 1 of 4
Rev.	Description	Date	Name					
a	Initial release	02.10.17	JNa	DP-34044-5-000_db_e_e.docx			The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.	

Characteristics of the Output Ports

Outputs	Digital Output	
	Output voltage	8...32 V DC
	Switching current	4 Amps
		10 Amps (Port1 A Pin-4) 10 Amps (Port3 A Pin-4)

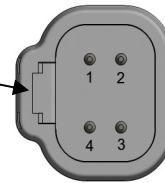
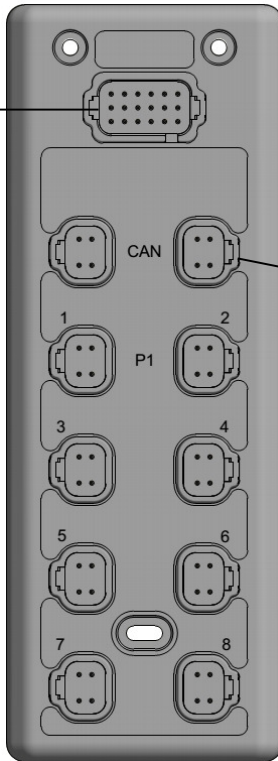
Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports BATTERY Pare connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
P1	Blue	Bus Power (Port Output Power)
OUT	Yellow	Left LED – Output A Right LED – Output B

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

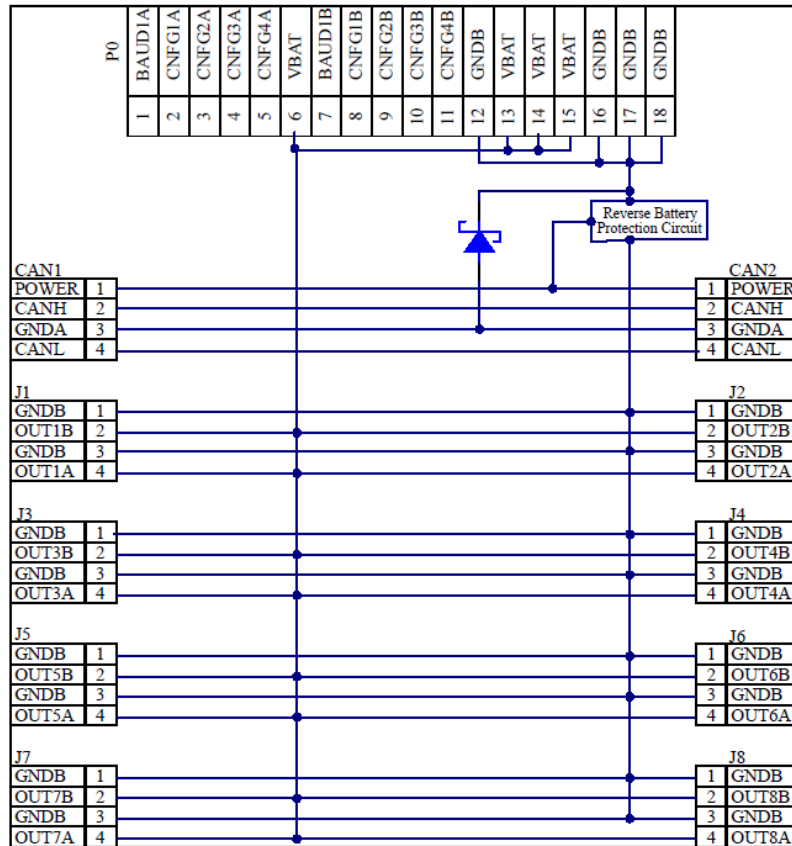
- Pin 1 = POWER
- Pin 2 = CAN HIGH
- Pin 3 = GROUND A
- Pin 4 = CAN LOW

OUTPUT Ports 1 to 8

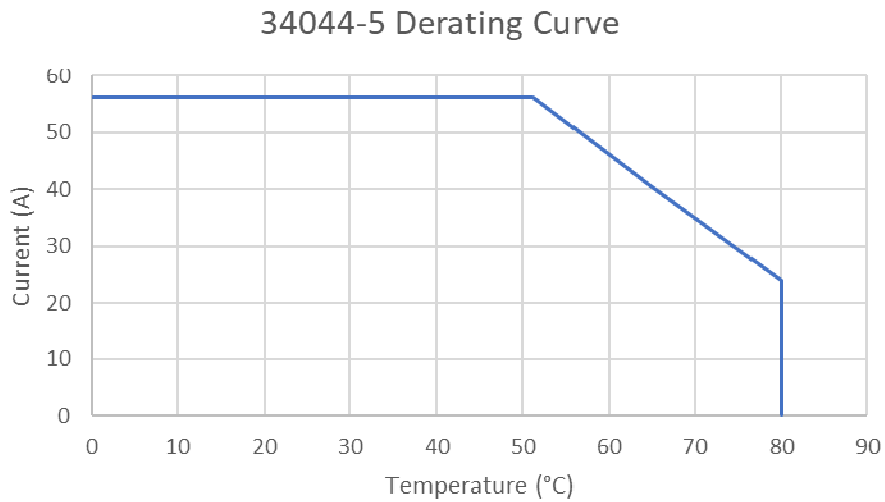
- Pin 1 = GROUND B
- Pin 2 = OUTPUT B
- Pin 3 = GROUND B
- Pin 4 = OUTPUT A


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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



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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