

Data Sheet

<p>DP-34044-5-200</p> <p><i>xtremeDB</i></p> <p><i>xDB16-DO</i></p> <p>Molded Plastic</p> <p>Output Module <i>Digital</i></p> <p>CANopen</p> <p>8...32 Vdc</p>	<p>The drawing shows a rectangular module with two rows of connectors. The top row has five DT06-4S connectors and one DT16-18SA-K004 connector. The bottom row has five DT06-4S connectors. Dimensions are provided in inches and millimeters. Key dimensions include a total width of 8.07 in (205 mm), a height of 3.80 in (97 mm), and a depth of 1.28 in (33 mm). Connector dimensions include a pitch of 0.20 in (5 mm) for the DT06-4S and a diameter of 0.22 in (5 mm) for the DT16-18SA-K004. A distance of 10.43 in (265 mm) is shown between the center of the first DT06-4S connector in the top row and the center of the DT16-18SA-K004 connector. A distance of 2.05 in (52 mm) is shown from the top edge to the top of the DT16-18SA-K004 connector. A distance of 0.30 in (8 mm) is shown from the top edge to the top of the first DT06-4S connector. A distance of 0.06 in (2 mm) is shown from the bottom edge to the bottom of the module.</p>
---	--

Technical Data

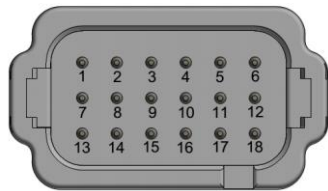
<i>Housing</i>	<i>Molded glass filled nylon</i>
<i>Dimensions (l x w x h)</i>	<i>3.80 x 10.43 x 1.34 in (97 x 265 x 34 mm)</i>
<i>Weight</i>	<i>1.5 lbs (0.68 kg)</i>
<i>Installation (mounting hardware not included)</i>	<i>Screw: 3 x #10 (3 x M5) Torque: 21 in-lbs (2.4 Nm) max.</i>
<i>Mating Connectors and Accessories</i> <i>Operating Voltage, Ground, and Configuration</i> <i>I/O-Ports</i>	<i>18 Pole Plug DT16-18SA or equivalent</i> <i>4 Pole Plug 10 x DT06-4S or equivalent</i>
<i>DEUTSCH® size 16 Socket</i>	<i>0462-201-16141 (16 – 20 AWG)</i> <i>1062-16-0122 (14 – 18 AWG)</i> <i>114017</i>
<i>DEUTSCH® Seal Plug</i>	
<i>Cable Length</i>	<i>98.4 ft (30 m) max.</i>
<i>Operating Voltage</i>	<i>8...32 V DC protected against reverse polarity</i>
<i>Operating Current</i>	<i>13 Amps continuous per pin max.</i> <i>52 Amps node current max.</i>
<i>Communication Interface and Baud Rate</i>	<i>2 non-isolated CANopen 250kb (default) & 500kb</i>
<i>Node ID</i>	<i>Node ID = 1</i> <i>Offset 0...15 (J0: CNFGx-A/B)</i>
<i>Total Outputs</i>	<i>16</i>
<i>Outputs Diagnostics</i>	<i>Short circuit and Overcurrent</i>
<i>Operating Temperature</i>	<i>-40...80 °C</i>
<i>Storage Temperature</i>	<i>-40...85 °C</i>
<i>Protection Class</i>	<i>IP67: Connector seal plugs required for unused pins. Sealing plugs required for unused ports</i> <i>IP68/IP69K: Using Murrelektronik MDC xtreme cables.</i>

					Date	Name	<p>Data Sheet</p> <p>xtremeDB Output Module CANopen xDB16-DO</p> <p>Art. No.: DP-34044-5-200</p>		
				Originator	05.13.20	TMc			
d	DCN 6022	08.28.23	AH	Approved	05.13.20	FSa			
c	DCN F750	09.09.21	FSa						
b	DCN F715	07.14.21	FSa	<p>A Murrelektronik Company</p>				<p>Art. No.: DP-34044-5-200</p>	<p><i>Sheet</i></p> <p>1 of 4</p>
Rev.	Description	Date	Name						
a	DCN F257	05.13.20	FSa	DP-34044-5-200_db_e_c			<p>The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.</p>		

Characteristics of the Output Ports

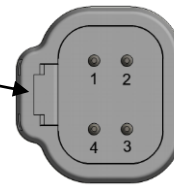
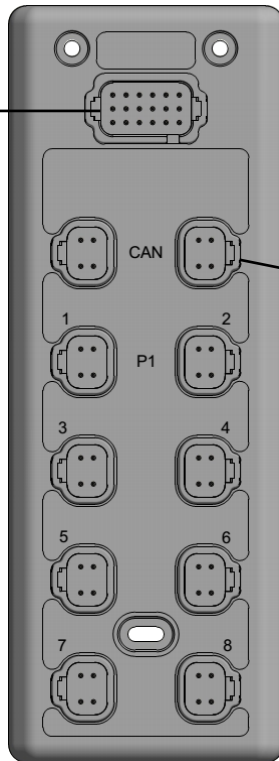
Outputs	Digital Output Output voltage 8...32 V DC Switching current 4 Amps 10 Amps (Port1 A Pin-4) 10 Amps (Port3 A Pin-4)	
Operating States (LEDs)		
Operating States (LEDs)	Color	Status
PWR	Blue	Module and Ports BATTERY Pare connected
COM & STAT	Green	Module and Communication status
FLT	Red	Fault Status
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

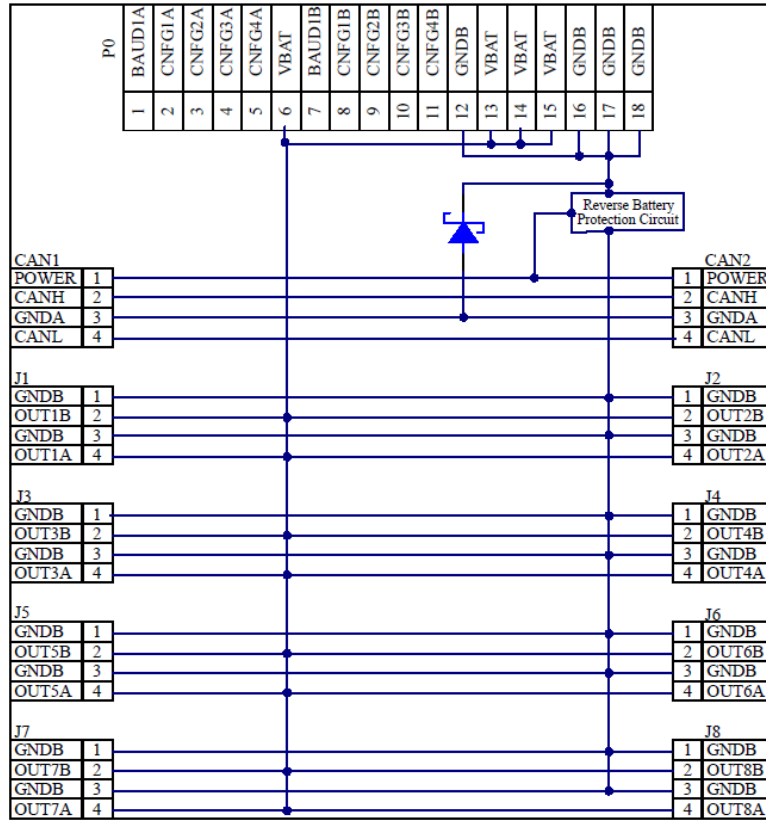
- Pin 1 = GROUND B
 Pin 2 = OUTPUT B
 Pin 3 = GROUND B
 Pin 4 = OUTPUT A



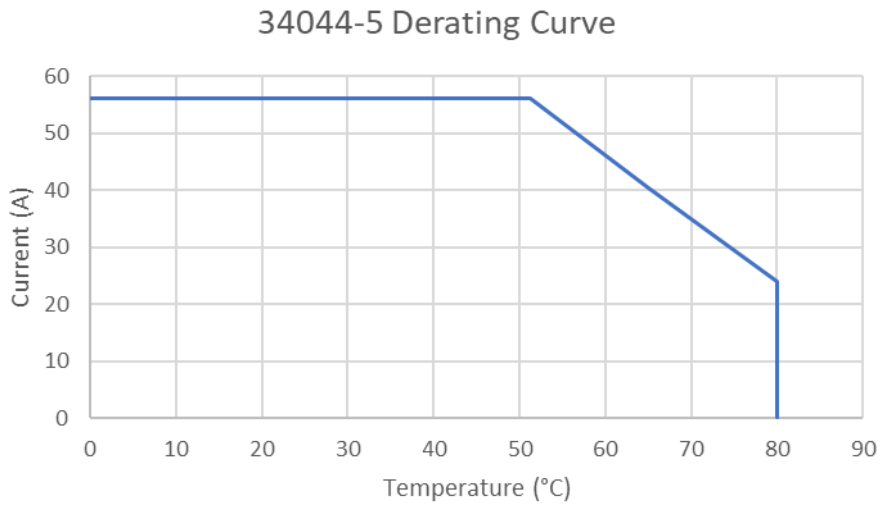
Proper installation and operation of the xtremeDB blocks requires the use of all ground connections. This includes Ground (A) for module power and Ground (B) for port power on the 18 pin configuration and power plug.


				Date	Name	Data Sheet xtremeDB Output Module CANopen xDB16-DO		
			Originator	05.13.20	TMc			
d	DCN 6022	08.28.23	AH	Approved	05.13.20		FSa	
c	DCN F750	09.09.21	FSa	 A Murrelektronik Company				
b	DCN F715	07.14.21	FSa					
Rev.	Description	Date	Name	Art. No.: DP-34044-5-200			Sheet	
a	DCN F257	05.13.20	FSa				The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.	
				DP-34044-5-200_db_e_c				

DP-34044-5-XXX I/O Diagram



Derating Curve Max Total Current



Rev.	Description	Date	Name	Date	Name	Data Sheet xtremeDB Output Module CANopen xDB16-DO	Sheet 3 of 4	
d	DCN 6022	08.28.23	AH	Approved	05.13.20			Art. No.: DP-34044-5-200
c	DCN F750	09.09.21	FSa	Originator	05.13.20			
b	DCN F715	07.14.21	FSa	 A Murrelektronik Company				
a	DCN F257	05.13.20	FSa	DP-34044-5-200_db_e_c				

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	DPLogic enabled Master, user programmable
DP-34044-5-200	CANopen Slave module



DPLogic™

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



				Date	Name	Data Sheet xtremeDB Output Module CANopen xDB16-DO	Art. No.: DP-34044-5-200	<i>Sheet</i> 4 of 4	
			Originator	05.13.20	TMc				
d	DCN 6022	08.28.23	AH	Approved	05.13.20				FSa
c	DCN F750	09.09.21	FSa	 A Murrelektronik Company					
b	DCN F715	07.14.21	FSa						
Rev.	Description	Date	Name						
a	DCN F257	05.13.20	FSa	DP-34044-5-200_db_e_c			The trademark DEUTSCH is owned by the TE Connectivity Ltd. family of companies.		