

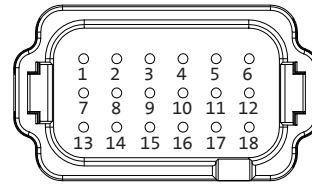
| xtreme DB

DO16 with PWM - Article Number DP-34044-3

xtreme DB is a family of distribution blocks with ports for Deutsch connectors. Designed for the mobile controls market (using J1939 for communication) the family includes Input, Output and Combination blocks. These blocks reduce your wiring efforts by minimizing the need for spider web harnesses, while at the same time allowing for shorter cable runs to each device. Each I/O point on the block has short circuit and over current protection along with LED indicators to make troubleshooting a breeze.

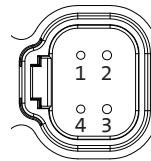


Configuration & Power Plug



See reverse for pinout guide

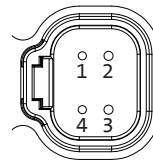
CAN Ports 1 & 2 Non-Isolated



CAN
(J1939)
Pin 2 = CAN High
Pin 4 = CAN Low

Power
(Module & Input-13A)
Pin 1 = 8-32V DC
Pin 3 = Ground A

Output Ports



Power
Pin 1 = Ground B
Pin 3 = Ground B

Configurations
1. Digital high side
2. PWM
3. Ratiometric
(Pending Q3)

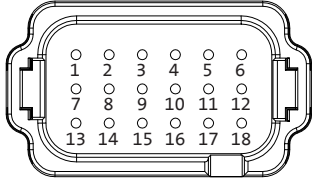
Output Current
10A = Output 1A & 3A
4A = All other outputs

Outputs

- Port 1, Pin 4: Output 1A
- Port 1, Pin 2: Output 1B
- Port 2, Pin 4: Output 2A
- Port 2, Pin 2: Output 2B
- Port 3, Pin 4: Output 3A
- Port 3, Pin 2: Output 3B
- Port 4, Pin 4: Output 4A
- Port 4, Pin 2: Output 4B
- Port 5, Pin 4: Output 5A
- Port 5, Pin 2: Output 5B
- Port 6, Pin 4: Output 6A
- Port 6, Pin 2: Output 6B
- Port 7, Pin 4: Output 7A
- Port 7, Pin 2: Output 7B
- Port 8, Pin 4: Output 8A
- Port 8, Pin 2: Output 8B

Configuration & Power Plug Pinouts

Jumper from A to B to configure



Baud Rate

No Jumper = 250kb

- 1. Baud1-A
 - 7. Baud1-B
- Baud1-A to Baud1-B = 500kb

Node ID (0-15)

- 2. Config1-A = 1s
- 8. Config1-B = 1s
- 3. Config2-A = 2s
- 9. Config2-B = 2s
- 4. Config3-A = 4s
- 10. Config3-B = 4s
- 5. Config4-A = 8s
- 11. Config4-B = 8s

Power (Output Only)

- 13. Power 1 = 13A for ports 1 & 2 (Outputs 1A, 1B, 2A, 2B)
- 14. Power 2 = 13A for ports 3 & 4 (Outputs 3A, 3B, 4A, 4B)
- 15. Power 3 = 13A for ports 5 & 6 (Outputs 5A, 5B, 6A, 6B)
- 6. Power 4 = 13A for ports 7 & 8 (Outputs 7A, 7B, 8A, 8B)

- 16. Ground 1B
- 17. Ground 2B
- 18. Ground 3B
- 12. Ground 4B

All Ground B's are internally connected. An additional Ground B must be supplied for every 13A of power used.

TECHNICAL DATA

Art. No. / Description	DP-34044-3 / Output Block
Dimension	3.82" (97.03mm) x 10.427" (264.85mm)
Installation	(3) M5 x 1 Screws
Communication	2 Non-isolated J1939 Ports
Voltage Range	8-32V DC
Operating/Storage Temp	-40 to 85°C
Protection	IP67
# of Ports	8
Total # of I/O	16
PWM Frequency	Digital (+), PWM, Ratiometric Analog (Pending Q3)
Output Diagnostics	100-1200hz
Switching Current	Short Circuit and Overcurrent
Total Output Current	(14) 4A, (2) 10A
J1939 Port	52A
Node ID	0-15 Offset
Baud Rate	250 Kbits/s, 500 Kbits/s
LEDs	5 Blue PWR, 1 Green CAN, 1 Green Stat, 1 Red Flt, 16 Yellow Status
Ports 1-8	1=Gnd B, 2=Sig 2, 3=Gnd B, 4=Sig 1

Port Deutsch Plugs Needed	
Power Port	DT16-18SA-K004
CAN & I/O Port	DT06-4S
WedgeLock DT Series 4-pin Socket	W4S
Size 16, Solid Socket, 16 - 20 AWG	0462-201-16141
Size 16, Solid Socket, 14 AWG	0462-209-16141
Size 16, Locking Sealing Plug	114017