xtreme DB
innovation Every Day

The xtreme DB is part of a family of distribution blocks with ports for Deutsch connectors. This block is designed for the mobile controls market as it uses J1939 for communication.

The family will include Input, Output and Combination blocks, each with amperages up to 52A. 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 LED indicators along with short circuit and over current protection making troubleshooting a breeze.

Deutsch connectivity for sensors and valves
LEDs for visual diagnostics at the ports
IP67 Rated Connections

<table>
<thead>
<tr>
<th>INPUT</th>
</tr>
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<tbody>
<tr>
<td>Pin 1 = 9-32V DC</td>
</tr>
<tr>
<td>Pin 2 = Signal 2</td>
</tr>
<tr>
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</tr>
<tr>
<td>Pin 4 = Signal 1</td>
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<tr>
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From the control cabinet via the interface, active or passive into the field. We have a widely diversified product range and can supply you with well thought-out solutions that are made to fit your industrial automation applications - from a single source.

Murrelektronik's U.S. office and warehouse are located in the suburbs of Atlanta, GA. Our team members are customer oriented and can help you with selecting, pricing, engineering and technical support to help you save time and money on your project. We maintain distribution networks across the U.S., so you can provide the best solution to your customers faster than your competition.

Our success has been based on innovative products, a highly-developed market and customer orientation, effective logistics, teamwork and quality products. As a Murrelektronik customer, you are our main focus. Our "stay connected" claim has emerged from this philosophy. It underlines the fact that we consistently orient ourselves to market requirements with regard to products, performance, price, quality, logistics and service.
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PIN ASSIGNMENTS

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xtreme Valve Plug - Form A

Internal Circuit Art. Number Schematic

12-24V AC/DC, 4A, LED and Z Diodes 7072-18021-754xxxx
12-24V AC/DC, 4A, LED & Free Wheeling Diode 7072-18031-754xxxx
12-230V AC/DC, 10A, without electronics 7072-18081-754xxxx

xtreme M12 Cable - Female Open Ended

Poles Jacket Color Cable Type Length Art. Number
1 2 3 4 4
Black PUR 1.5m 7072-12221-7370150
3m 7072-12221-7370300
5m 7072-12221-7370500
7.5m 7072-12221-7370750
10m 7072-12221-7371000

xtreme DB - AT A GLANCE

• Multiple Versions - DO16 (PW)
  - DO16 (PW MI Paired)
  - DO16 (Discr Discrete Only)
• DI16
• 8 Inputs/8 Outputs
• CAN Splitter
• Passive

• J1939 Communication
• Configurable inputs allow for analog or digital
• Amperage - Up to 52A per Module
• Up to 52A per Output

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---

### Deutsch Connectivity for Sensors and Valves
- **Deutsch plug - MDC06-2s**
  - 12-30V AC/DC, 4A, with LED: 7072-72021-145xxxx
  - 12-230V AC/DC, 4A, without electronics: 7072-72001-145xxxx

- **AMP/Tyco Junior Timer - MJT-2P**
  - 12-30V AC/DC, 4A, with LED: 7072-70021-750xxxx
  - 12-30V AC/DC, 4A, with LED & Suppression: 7072-70061-750xxxx
  - 12-230V AC/DC, 4A, without electronics: 7072-70001-750xxxx

- **xtreme Valve Plug - Form A**
  - Internal Circuit: 12-24V AC/DC, 4A, LED and Z Diodes: 7072-18021-754xxxx
  - 12-24V AC/DC, 4A, LED & Free Wheeling Diode: 7072-18031-754xxxx
  - 12-230V AC/DC, 10A, without electronics: 7072-18081-754xxxx

### xtreme M12 Cable - Female Open Ended
- **Cable Length**
  - 1.5m: 7072-12221-7370150
  - 3m: 7072-12221-7370300
  - 5m: 7072-12221-7370500
  - 7.5m: 7072-12221-7370750
  - 10m: 7072-12221-7371000

### AT A GLANCE
- **Multiple Versions**
  - DO16 (PWM)
  - DO16 (PWMI Paired)
  - DO16 (Discrete Only)
  - DI16

- **J1939 Communication**
- **Configurable inputs allow for analog or digital**

---

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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication</strong></td>
<td>2 Non-isolated J1939 Ports</td>
<td>10 non-isolated J1939 ports</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Voltage Range</strong></td>
<td>8-32V DC</td>
<td>8-32V DC</td>
<td>8-32V DC</td>
<td>8-32V DC</td>
<td>8-32V DC</td>
<td>8-32V DC</td>
<td>8-32V DC</td>
<td>8-32V DC</td>
<td>8-32V DC</td>
</tr>
<tr>
<td><strong>Operating/Storage Temp</strong></td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
<td>-40 to 85°C / -45 to 85°C</td>
</tr>
<tr>
<td><strong>Protection</strong></td>
<td>IP67</td>
<td>IP67</td>
<td>IP67</td>
<td>IP67</td>
<td>IP67</td>
<td>IP67</td>
<td>IP67</td>
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<td>IP67</td>
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<tr>
<td><strong># of Ports</strong></td>
<td>8</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total # of I/O</strong></td>
<td>16</td>
<td>n/a</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td><strong>Total # of Inputs</strong></td>
<td>8</td>
<td>16</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong># of Digital</strong></td>
<td>4 to 8*</td>
<td>8 to 16*</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td><strong># of Configurable Inputs</strong></td>
<td>4 Digital, 4 Analog/Digital</td>
<td>8 Digital, 8 Analog/Digital</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Input A Configurations</strong></td>
<td>Digital Positive, Digital Ground, Frequency/Counter/Encoder</td>
<td>Digital Positive, Digital Ground, Frequency/Counter/Encoder</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Input B Configurations</strong></td>
<td>0-10V DC, 0-5V DC, 0-32V DC, 4-20ma, Digital Ground, Digital Positive, Ratiometric</td>
<td>0-10V DC, 0-5V DC, 0-32V DC, 4-20ma, Digital Ground, Digital Positive, Ratiometric</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Analog Resolution</strong></td>
<td>12 bit, 1% Full scale accuracy</td>
<td>12 bit, 1% Full scale accuracy</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Input Diagnostics</strong></td>
<td>short circuit</td>
<td>short circuit</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Total # of Outputs</strong></td>
<td>8</td>
<td>n/a</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong># of Configurable Outputs</strong></td>
<td>8</td>
<td>n/a</td>
<td>12</td>
<td>12</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td><strong># of Paired Outputs</strong></td>
<td>n/a</td>
<td>n/a</td>
<td>12</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Output Configurations</strong></td>
<td>Digital (+), PWM, PWM(I), n/a</td>
<td>Digital (+), PWM Digital (+), PWM, PWM(I) Digital (+)</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>PWM Frequency</strong></td>
<td>100-1200hz</td>
<td>n/a</td>
<td>100-1200hz</td>
<td>100-1200hz</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Output Diagnostics</strong></td>
<td>Short Circuit and Overcurrent</td>
<td>Short Circuit and Overcurrent Short Circuit and Overcurrent Short Circuit and Overcurrent</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td><strong>Switching Current</strong></td>
<td>4A</td>
<td>n/a</td>
<td>(12) 4A, (4) 10A</td>
<td>(2) 4A, (2) 10A, (6) 4A paired (14) 4A, (2) 10A</td>
<td>n/a</td>
<td>13A per pin</td>
<td>13A per pin</td>
<td>13A per pin</td>
<td>13A per pin</td>
</tr>
<tr>
<td><strong>Total Output Current</strong></td>
<td>26A</td>
<td>n/a</td>
<td>52A</td>
<td>52A</td>
<td>52A</td>
<td>n/a</td>
<td>13A</td>
<td>26A</td>
<td>26A</td>
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<tr>
<td><strong>J1939 Port 1</strong></td>
<td>+V DC (Module Pwr), CAN L, Gnd, CAN H</td>
<td>+V DC (Module Pwr), CAN L, Gnd, CAN H</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td><strong>Node ID</strong></td>
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<td>0-15</td>
<td>0-15</td>
<td>0-15</td>
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<td>n/a</td>
<td>n/a</td>
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<tr>
<td><strong>Baud Rate</strong></td>
<td>250 Kbits/s, 500 Kbits/s</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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</tr>
<tr>
<td><strong>LEDs</strong></td>
<td>(4) blue (PWR), (2) red CAN 16 Yellow - Status (PNP) 16 Yellow - Status (PNP) 16 Yellow - Status (NPN)</td>
<td>2 Red - CAN 16 Yellow - Status (PNP) 16 Yellow - Status (PNP) 16 Yellow - Status (PNP)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ports 1-4</strong></td>
<td>1=gnd, 2=signal 2, 3=gnd, 4=signal 1</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Ports 5-8</strong></td>
<td>1=+V DC, 2=signal 2, 3=gnd, 4=signal 1</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Ports 1-8</strong></td>
<td>1=+V DC, 2=signal 2, 3=gnd, 4=signal 1 (PAIRED) 1=Gnd, 2=Signal 2, 3=Gnd, 4=Signal 1</td>
<td>1=+V DC, 2=signal 2, 3=+V DC, 4=Signal 1</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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Art. Number
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LED & Free Wheeling Diode
7072-18031-754xxxx
12-230V AC/DC, 10A,
without electronics
7072-18081-754xxxx

xtreme M12 Cable
Female Open Ended

Poles
Jacket
Color
Cable Type
Length
Art. Number

Black PUR
4
1.5m
7072-12221-7370150
5m
7072-12221-7370500
7.5m
7072-12221-7370750
10m
7072-12221-7371000

12241

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Power & Configuration

CAN Communication

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