Motor 2040 (PIM618): Headers and motor direction LEDs

Extension headers

<table>
<thead>
<tr>
<th>J1</th>
<th>J2</th>
<th>3x2 SERVO</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>12.</td>
<td>VSYS</td>
</tr>
<tr>
<td>2.</td>
<td>11.</td>
<td>GND</td>
</tr>
<tr>
<td>3.</td>
<td>10.</td>
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</tr>
<tr>
<td>4.</td>
<td>9.</td>
<td>J2C SDA</td>
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<td>5.</td>
<td>8.</td>
<td>J2C SCL</td>
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<td>7.</td>
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<td>6.</td>
<td>ADC0</td>
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<td>5.</td>
<td>ADC1</td>
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<td>4.</td>
<td>ADC2</td>
</tr>
<tr>
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<td>3.</td>
<td>SWCLK</td>
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<tr>
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<td>2.</td>
<td>SWDO</td>
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<tr>
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<td>1.</td>
<td>GND</td>
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Sensor header

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<tbody>
<tr>
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<tr>
<td>2.</td>
<td>1</td>
<td>SENS1</td>
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<tr>
<td>3.</td>
<td>2</td>
<td>SENS2</td>
</tr>
<tr>
<td>4.</td>
<td>COM_MID</td>
<td>MID1*2</td>
</tr>
<tr>
<td>5.</td>
<td>COM_MID</td>
<td>MID2*2</td>
</tr>
<tr>
<td>6.</td>
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<td>MID3*2</td>
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<td>J2C</td>
</tr>
<tr>
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<td>BOT1*2</td>
</tr>
<tr>
<td>9.</td>
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<td>BOT2*2</td>
</tr>
<tr>
<td>10</td>
<td>COM_MID</td>
<td>GND</td>
</tr>
</tbody>
</table>

LEDs

IN_MOT_AP to IN_MOT_AN

IN_MOT_BP to IN_MOT_BN

IN_MOT_CP to IN_MOT_CN

IN_MOT_DP to IN_MOT_DN

J1 = plus, J2 = minus
Forward: J1 high, J2 low
Reverse: J1 low, J2 high
Current = 200mV/resistance
0.47ohm resistor -> 0.425A current
Resistor power: 0.425*0.2V = 0.085W

Current = 200mV/resistance
0.47ohm resistor -> 0.425A current
Resistor power: 0.425*0.2V = 0.085W

Dual motor driver, channels A and B

Current = 200mV/resistance
0.47ohm resistor -> 0.425A current
Resistor power: 0.425*0.2V = 0.085W

Dual motor driver, channels C and D

Motor power header

Motor+encoder connector, A
Motor+encoder connector, B

Motor+encoder connector, C
Motor+encoder connector, D

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