Analog Output

Jumper Config: NC, Default: Vmode
Jumper Config: 1-2, M3 = 1: Inside
Jumper Config: 3-2, External MOU config
AnEnable Ch1, N = 1: Aout mode (Default)
AnEnable Ch1, N = 0, Ain mode

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### EVM Hardware

**Programmable Analog Output**

**Project Title:**

*Designed for:*

*Public Release*

**Assembly Variant:**

*001*

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**Variant/Label Table**

<table>
<thead>
<tr>
<th>Variant</th>
<th>Label Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Analog Input Control Bipolar Output</td>
</tr>
<tr>
<td>002</td>
<td>PWM Input Control Bipolar Output</td>
</tr>
</tbody>
</table>

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**Configuration Table**

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Output polarity</th>
<th>Input signal spec</th>
<th>Reference</th>
<th>Rin resistor</th>
<th>Rgain resistor</th>
<th>Populates</th>
<th>DNP</th>
</tr>
</thead>
<tbody>
<tr>
<td>External DAC</td>
<td>Unipolar</td>
<td>0 - 2.5 V</td>
<td>0</td>
<td>Single-ended</td>
<td>1240</td>
<td>10k</td>
<td>R8</td>
</tr>
<tr>
<td></td>
<td>Bipolar</td>
<td>0.4 - 2.9 V</td>
<td>1.65 V</td>
<td>Pseudo-differential</td>
<td>619</td>
<td>10k</td>
<td>R7, R5, C3, R6, C14, C15, C16</td>
</tr>
<tr>
<td>PWM Signal (100kHz)</td>
<td>Unipolar</td>
<td>3.3 V, 0 - 75.75 % Duty cycle</td>
<td>0</td>
<td>Single-ended</td>
<td>1240</td>
<td>10k</td>
<td>R8, R5, C3, R6, C14, C15, C16</td>
</tr>
<tr>
<td>PWM Signal (150kHz)</td>
<td>Bipolar</td>
<td>3.3 V, 12.12% - 87.87 % Duty cycle</td>
<td>1.65 V</td>
<td>Pseudo-differential</td>
<td>619</td>
<td>10k</td>
<td>R7, R5</td>
</tr>
</tbody>
</table>

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**Assembly Notes:**

- **Assembly Note ZZ1:** This Assembly Note is for PCB labels only
- **Assembly Note ZZ2:** These assemblies are ESD sensitive. ESD precautions shall be observed.
- **Assembly Note ZZ3:** These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.
- **Assembly Note ZZ4:** These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.