Micro OLED - SSD1306

VDD: 1.65V - 3.3V
VBAT: 3.3V - 4.5V
VCC: 7V - 7.5V (Internal)

Power Considerations

The OLED requires a 1.65-3.3V supply for its logic circuits (VDD) and a 7-7.5V supply for its display circuitry (VCC). Fortunately, it features a charge-pump boost converter to generate a 7V supply (VCC) from 3.3-4.2V. The charge-pump input voltage is taken from the VBAT line.

VDD current < 300 µA
VCC current (Internally generated) = 5.8-20.5mA
VCC current (Externally supplied) = 1.7-6.9mA

Jumpers + Interface selection

<table>
<thead>
<tr>
<th>Interface</th>
<th>BS1</th>
<th>BS2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPI</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>I2C</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>8-bit (6800)</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>8-bit (8000)</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

The D/C jumper should be open if SPI or parallel interfaces are used. In those interfaces this pin determines whether incoming signals are data or command.

Connectors

7-bit unshifted Address: 0x3D (Default)
Alternate Address: 0x3C
Close jumper for Alternate Address

Cut I2C Jumper to remove pull-ups from I2C bus.