### POWER LIMITS

- Depends on the Board used

**NOTE:** CIPO/COPI have previously been referred to as MISO/MOSI

---

<table>
<thead>
<tr>
<th>Microcontroller's Port</th>
<th>Internal Pin</th>
<th>SWD Pin</th>
<th>Power</th>
<th>Ground</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1-Female</td>
<td>J2-Female</td>
<td>Camera</td>
<td>USB</td>
<td>SD Card Reader</td>
<td>Ethernet LAN8742ai</td>
</tr>
<tr>
<td>High Density Connector</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Microcontroller's Port</th>
<th>Internal Pin</th>
<th>Other Pin</th>
<th>SWD Pin</th>
<th>High Density Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>GND</td>
<td>J1-29 PJ6</td>
<td>USBHS_ID</td>
<td>VBUS</td>
<td>READ ONLY</td>
</tr>
<tr>
<td>J1-27 USBHS_ON</td>
<td>J1-25 USBHS_D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J1-24 USBFS_ID</td>
<td>J1-26 USBFS_D</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PA12</td>
<td>PA11</td>
<td>J1-24</td>
<td></td>
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</tr>
<tr>
<td>RJ1</td>
<td>RJ2</td>
<td>RJ3</td>
<td>RJ4</td>
<td>RJ5</td>
</tr>
</tbody>
</table>

**POWER LIMITS**

Depends on the Board used

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- **Ground**
- **Power**
- **LED**
- **Internal Pin**
- **SWD Pin**
- **Microcontroller’s Port**
- **Short Circuit**
- **High Density Connector**

**POWER LIMITS**

Depends on the Board used

- **NOTE: CIPO/COPI** have previously been referred to as MISO/MOSI

When set to HIGH, keeps the Board in Boot mode

- **BOOT_SEL**

When set to HIGH enables bootloader upload via USB (DFU), USBA to USBA (not twisted) cable required

- **BOOT**

Making a short circuit between the connectors allows to read the values inside the Short Circuit cells.

- **Battery CR2032 3V**