



To Raspberry Pi

**Note:** The status-display only shares a ground with the Raspberry Pi and does not draw any substantial power from the Raspberry Pi. Each GPIO output is isolated from the Pi via the driving transistor for the LEDs (one per LED).

Power for the LEDs comes from the USB connection to use the 5vdc from the USB bus. We need to take care to manage how we are distributing USB power but we could use a separate 5vdc power supply or a charging port as is available on some USB hubs since the status-display does not do any USB data transfer and just wants power.

Joliet Cyborgs - FRC #4241

Autonomous Status Display

FRC #4241

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