

Orange Pi and Arducam System

This section covers how to wire the Orange Pi and Arducam System. This is a vision system that we use as an alternative to the Limelight system.

Background

Orange Pi

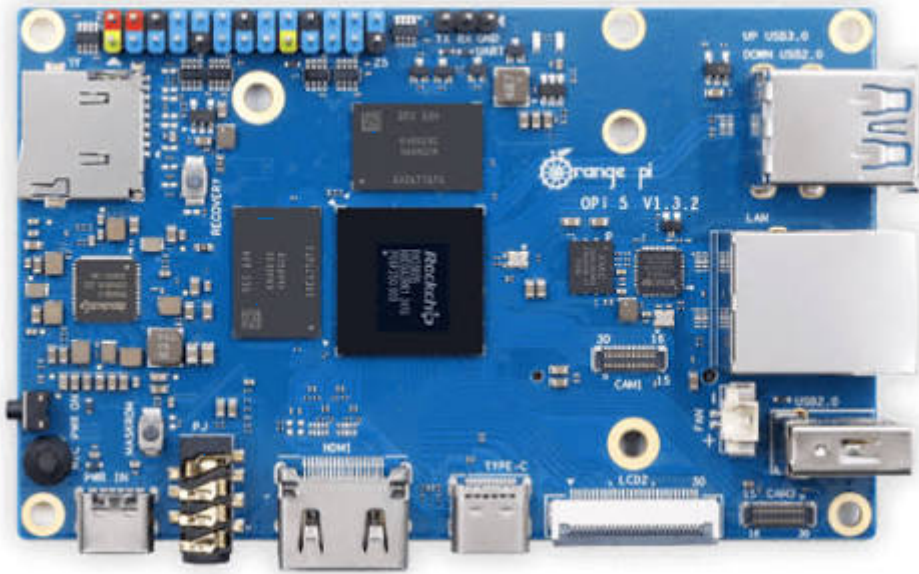


Figure 1

The Orange Pi (**Figure 1**) is a high-speed single board computer powered by a buck converter which is connected to the PDH. It requires 5 volts to power it this is where the buck converter comes in.

Buck Converter

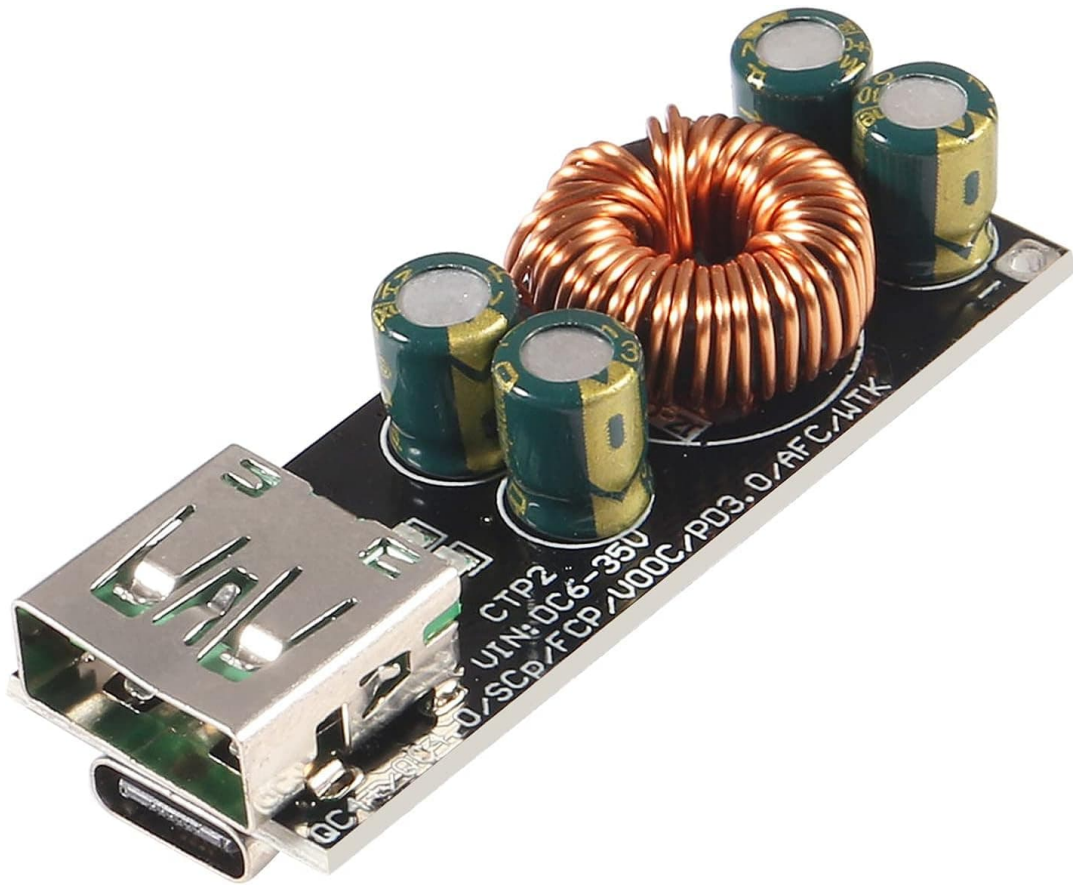


Figure 2

The buck converter is shown above in **Figure 2**. Our particular converter is a DC to DC converter which means it transfers the same type of current. What the buck converter does is it turns the 12 volts from the PDH to 5 volts.

Arducam



Figure 3

The arducam (**Figure 3**) is a robust high quality camera module specifically created for processors like the Orange Pi and Raspberry Pi. In our system we connect the arducam to the Orange Pi via USB.

How to Wire



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