

## Eytu project

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## Contents

Component type	Name	Qty
Integrated circuit	Regulator	7
	Analog IC	5
	Voltage Detector	1
	Power Manag. IC	1
Discrete Semiconductor	Diode	30
	Transistor	35
Passive comp.	Capacitor	176
	Fuse	1
	Ferrite Bead	6
	Inductor	16
	Resistor	148

Table 1: Power supply component list

## 1. Power supply

On the Wii U motherboard there is a discrete number of components involved in the power supply section, there are both passive components, discrete semiconductors and Integrated circuits all working together to power the PCB. In ?? we summarized the main components listed under type and name: we can see the huge amount of passive components needed to support the integrated circuits and the discrete amount of transistors and diodes; on the other hand the number of integrated circuit is restrained.

### 1.1 Integrated circuits description

The three main integrated components that are worth to be described are:

- *The power management IC*, model TPS65070RSL from Texas Instruments;
- *The Regulator DC/DC Converter, Step-Up*, model AIC1634GG from Analog Integration corp.;
- *The switchig Regulator DC/DC Controller, Step-Down*, model LV5066V from ON Semiconductors.

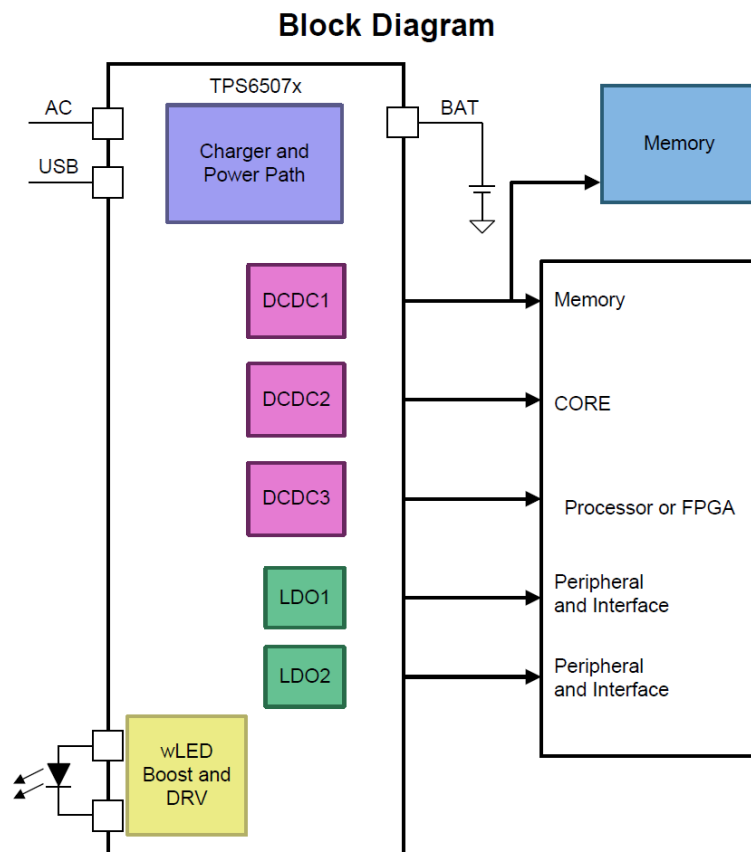


Figure 1: Schematic for TPS65070RSL