1 2 3

AC Power Switch

Microsoft Research

Microsoft Corp. www.microsoft.com

Physically secure computer controlled AC power switch system design -

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Supported Modules:

- Control (ATSAMD51)
- Radio Support (Adafruit Feather Socket)

Interface:

- Wireless (BT/WiFi/LAN as needed)
- **USB** (Type B 2.0)
- LED & Sound
- GPIO

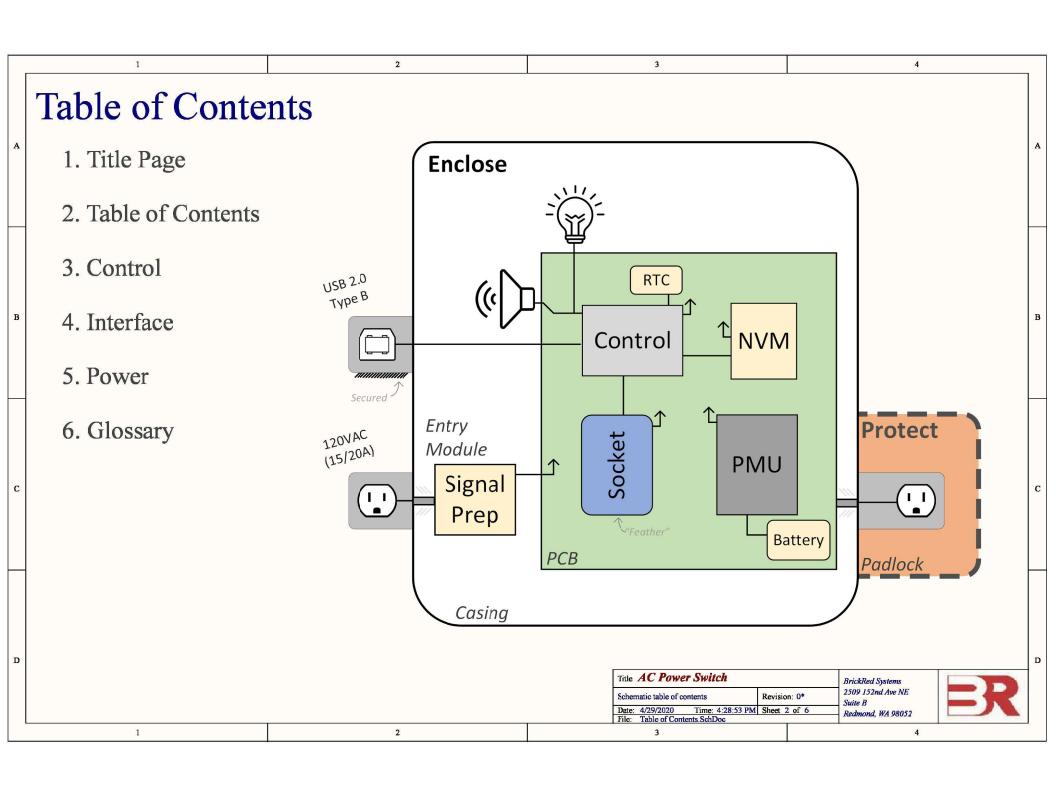
System Components:

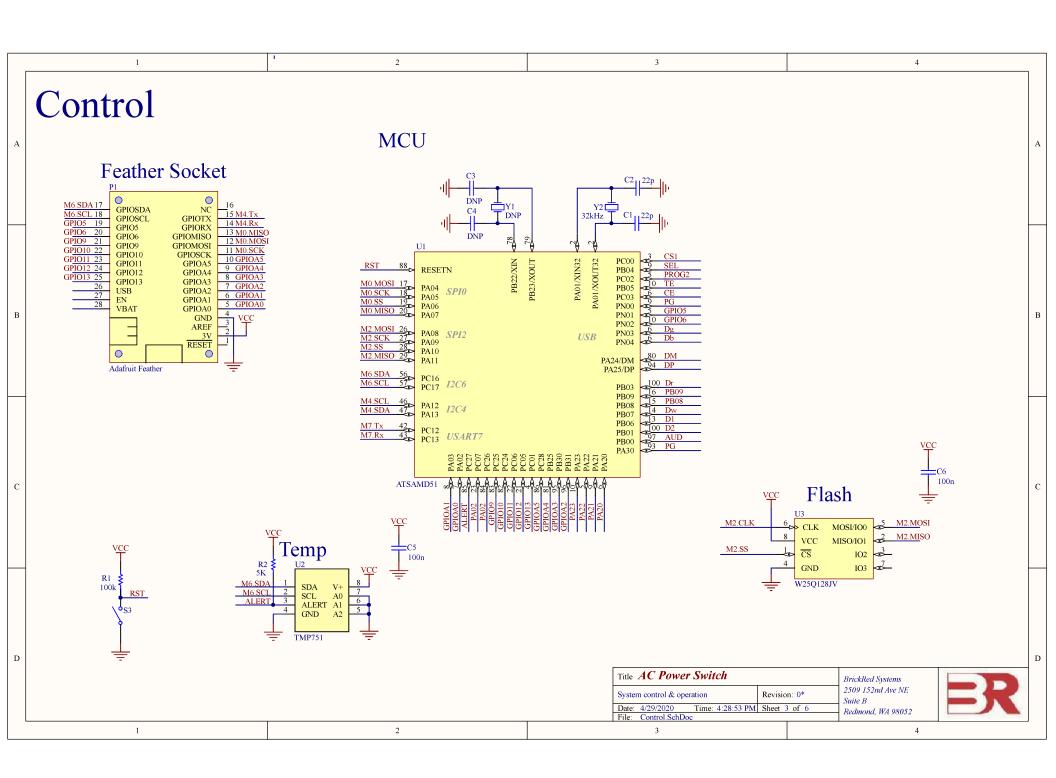
- Flash
- RTC (32.768 kHz)
- Power Filtering (120VAC)
- Battery (Backup support)

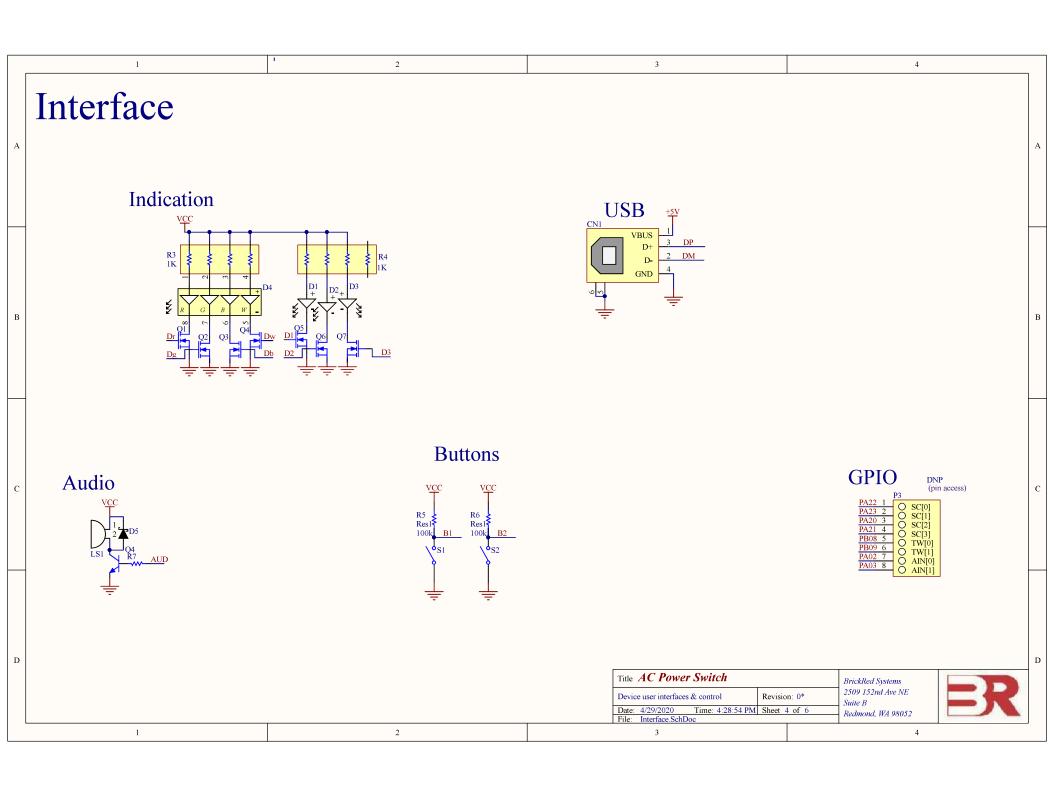
Title AC Power Switch BrickRed Systems 2509 152nd Ave NE Secure AC controlled power switch Revision: 0* Suite B Date: 4/29/2020 Time: 4:28:53 PM Sheet 1 of 6 Redmond, WA 98052

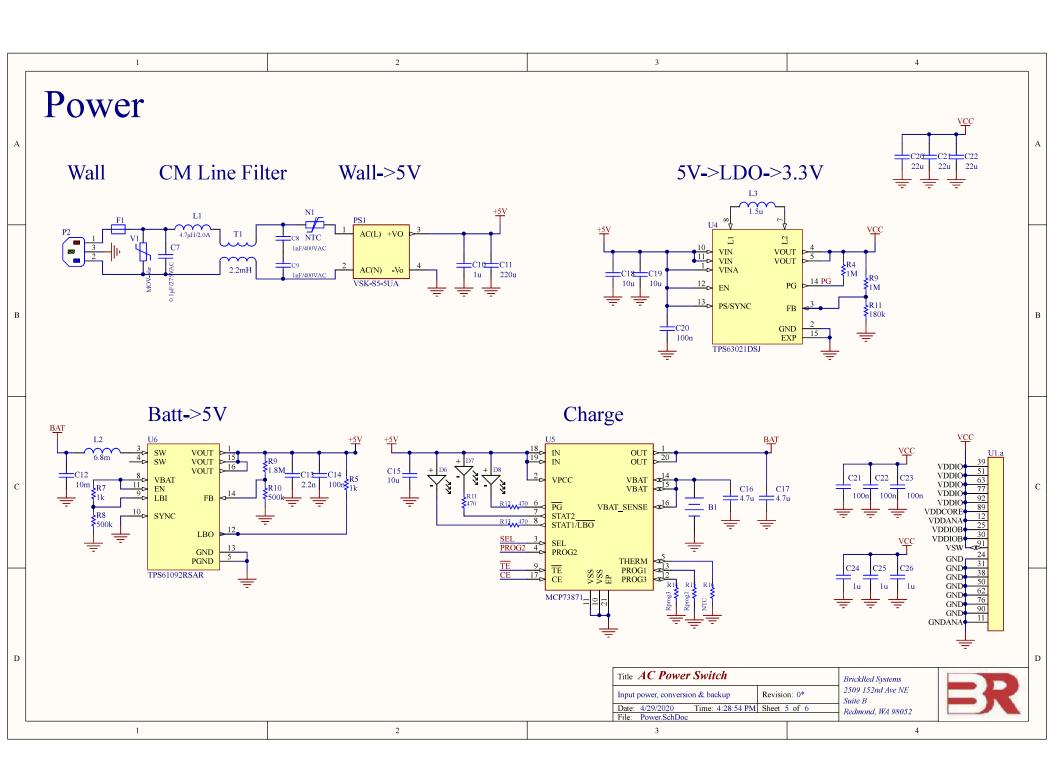


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2 3 4 Glossary Design Notes Design Opens - loop connection of U5-U6? - This document shares options if needed - confirm clock configs Questions 1. Interest in D4? 2. Capacitance schema for CPU? Many pins 3. Interest in PIP Filter? (e.g. D/K # CCM1603-ND) Rail Description Connector Description - none listed - VCC: +3.3V system voltage - +5V: Power system supply - VBAT: Battery output voltage Title AC Power Switch BrickRed Systems 2509 152nd Ave NE Design notes & opens Revision: 0* Suite B Date: 4/29/2020 Time: 4:28:54 PM Sheet 6 of 6 Redmond, WA 98052 2