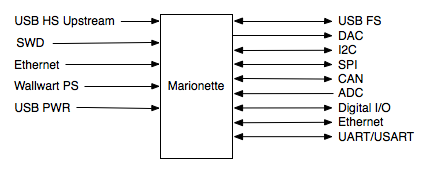
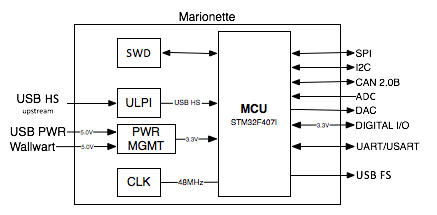
**Level 0 – Marionette**



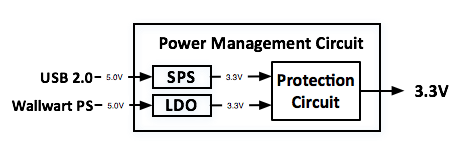
|  |  |
| --- | --- |
| Module | Marionette DAQ |
| Inputs | * USB PWR: USB 2.0, 5V DC, 500mA * USB HS Upstream * Wallwart power supply 5V * Ethernet: 10/100 Mbits/s * SWD– serial wire JTAG debug port |
| Outputs | * SPI Network * I2C Network * CAN Network * DAC: 12bit resolution * ADC: 12bit resolution * Digital I/O * UART/USART: * USB FS * Ethernet: 10/100 Mbits/s |
| Functionality | Multifunction data acquisition device. |

**Level 1 – Marionette**



|  |  |
| --- | --- |
| Module | Marionette DAQ |
| Inputs | * USB PWR - 5V DC, 500mA * USB HS – upstream * Wallwart power supply - 5V * SWD – serial wire JTAG debug port * CLK – 8 or 12MHz / 32kHz (RTC) |
| Outputs | * SPI Network * I2C Network * CAN 2.0B Network * DAC - 12bit resolution * ADC – 12bit resolution * Digital I/O – 3.3V * UART/USART: * USB FS * Ethernet: 10/100 Mbits/s * USB FS * SDIO to MICRO SD card |
| Functionality | Multifunction data acquisition device. |

**Level 2 – Marionette**



|  |  |
| --- | --- |
| Module | Power Management |
| Inputs | * USB PWR: USB 2.0, 5V DC, 500mA * Wall wart PS 5V DC |
| Outputs | * 3.3V DC |
| Functionality | Condition the incoming supply voltages to 3.3V DC and provide protection for overvoltage and over current scenerios |