

ALog BottleLogger v.2.2.0

User's layout

Legend

Ground (GND; 0V)

Power (VCC)

3.6 - 4.7 V with 3 primary Alkaline cell batteries via jack/plug
[OR] 5V powered via USB

Switched voltage supply: 3.3V or 5V*

*5V charge pump provides up to 5.2V until current draw hits 5-10 mA

Digital inputs and outputs (I/O):

In-system programmer access: burn bootloader (or programs directly)

MOSI, MISO, SCK: SPI bus (also used for SD card)

D9, D6: PWM-enabled digital I/O pins

D3-INT1: External interrupt can be read at this digital I/O pin

RX, TX: UART (also connected to USB comms via 1kΩ in-series resistors)

SDA, SCL: I2C bus operating at 3.3V (also connected to RTC)

USB: Communication with logger via USB-Serial converter and UART

Analog inputs, referenced to 3.3V

Reference resistor headers for voltage dividers

