

The diagram shows seven parallel branches connected to a common ground. Each branch contains a 3V3 voltage source in series with a capacitor. The capacitors are labeled C1 through C8. C1 through C5 are 100nF, C6 is 100nF, and C8 is 4.7uF.

The image displays four identical circuit diagrams side-by-side, each representing a different LED output from a microcontroller. Each circuit includes a 3V3 power supply connected to a 1k resistor (labeled R1, R2, R3, or R4). The other end of the resistor is connected to the anode of an LED (labeled LED1, LED2, LED3, or LED4). The cathode of each LED is connected to a specific microcontroller pin (P1_10/STATUS, RSTOUT, RX_LED, or TX_LED). The pins are labeled with blue text, while the components and connections are shown in red.

The diagram illustrates the J1 MICROMOD-2222 connector, which is a 70-pin header. The connections are as follows:

- Power and Reset:**
 - VUSB (Green) connects to Pin 1.
 - VRTC (Green) connects to Pin 2.
 - 3V3 (Green) connects to Pin 3.
 - RESET (Blue) connects to Pin 4.
 - BOOT (Blue) connects to Pin 5.
 - 3V3_EN (Green) connects to Pin 6.
 - RTC_3V (Green) connects to Pin 7.
- USB and Host Data:**
 - USB_D- (Blue) connects to Pin 8.
 - USB_D+ (Blue) connects to Pin 9.
 - USBHOST_D- (Blue) connects to Pin 10.
 - USBHOST_D+ (Blue) connects to Pin 11.
 - CAN_TX (Blue) connects to Pin 12.
 - CAN_RX (Blue) connects to Pin 13.
 - SWDIO (Blue) connects to Pin 14.
 - SWDCK (Blue) connects to Pin 15.
- GPIO and I2C:**
 - P0_30/USB_D-1 (Blue) connects to Pin 16.
 - P0_29/USB_D+1 (Blue) connects to Pin 17.
 - P2_7/CAN_RD2 (Blue) connects to Pin 18.
 - P2_8/CAN_TD2 (Blue) connects to Pin 19.
 - P0_9/I2S_TX_SDA (Blue) connects to Pin 20.
 - P0_6/I2S_RX_SDA (Blue) connects to Pin 21.
 - P0_8/I2S_TX_WS (Blue) connects to Pin 22.
 - P0_7/I2S_TX_SCK (Blue) connects to Pin 23.
 - P0_11/I2C2_SCL (Blue) connects to Pin 24.
 - P0_10/I2C2_SDA (Blue) connects to Pin 25.
 - P2_6 (Blue) connects to Pin 26.
 - P0_0/I2C1_SDA (Blue) connects to Pin 27.
 - P0_1/I2C1_SCL (Blue) connects to Pin 28.
 - P0_25/ADC0_IN2 (Blue) connects to Pin 29.
- Other Connections:**
 - BATT_VIN/3 (Blue) connects to Pin 30.
 - GND (Green) connects to Pin 31.
 - GND (Green) connects to Pin 32.
 - GND (Green) connects to Pin 33.
 - GND (Green) connects to Pin 34.
 - GND (Green) connects to Pin 35.
 - GND (Green) connects to Pin 36.
 - GND (Green) connects to Pin 37.
 - GND (Green) connects to Pin 38.
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 - GND (Green) connects to Pin 63.
 - GND (Green) connects to Pin 64.
 - GND (Green) connects to Pin 65.
 - GND (Green) connects to Pin 66.
 - GND (Green) connects to Pin 67.
 - GND (Green) connects to Pin 68.
 - GND (Green) connects to Pin 69.
 - GND (Green) connects to Pin 70.


[illegible]

USB to Serial Converter

The diagram illustrates a USB to Serial Converter circuit. A 3V3 USB source is connected to the CH9102F IC (U2) through three 100nF capacitors (C11, C12, C13). The USB_D+ and USB_D- lines are connected to pins 1 and 2 of U2, respectively. The VBUS line is connected to pin 8. The GND pin (pin 3) is connected to the common ground. The CH9102F IC is configured with the following connections:

- Pin 1:** USB_D+
- Pin 2:** USB_D-
- Pin 3:** GND
- Pin 4:** UD+
- Pin 5:** UD-
- Pin 6:** VIO
- Pin 7:** V3
- Pin 8:** VDD5
- Pin 9:** VBUS
- Pin 10:** RST#
- Pin 11:** ACT#
- Pin 12:** WAKEUP/GP103
- Pin 13:** TXS/GP100
- Pin 14:** RXS/GP101
- Pin 15:** SUSPEND#
- Pin 16:** GP104
- Pin 17:** SUSPEND
- Pin 18:** CTS
- Pin 19:** RTS
- Pin 20:** RXD
- Pin 21:** TXD
- Pin 22:** DSR
- Pin 23:** DCD
- Pin 24:** R1

The CH9102F IC is connected to a microcontroller (U1) via its serial interface. The microcontroller's TX pin is connected to the RX pin of the CH9102F, and its RX pin is connected to the TX pin of the CH9102F. The microcontroller's GND pin is connected to the common ground. The microcontroller's VCC pin is connected to a 3V3 source through a 10k resistor (R8). The microcontroller's RESET pin is connected to a 100 ohm resistor (R9) and a 100 ohm resistor (R10) to the common ground. The microcontroller's P0_3/U0_RXD pin is connected to the RX pin of the CH9102F. The microcontroller's P0_2/U0_TXD pin is connected to the TX pin of the CH9102F. The microcontroller's BOOT pin is connected to the CTS pin of the CH9102F. The microcontroller's TX_LED pin is connected to the TX pin of the CH9102F. The microcontroller's RX_LED pin is connected to the RX pin of the CH9102F.

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