

The schematic diagram illustrates the pin configuration for the U5 CH32V307 microcontroller. Key connections include:

- Power Supply:** VCC3V3 is connected to the VCC pin. GND is connected to the GND pin. VBAT is connected to the VBAT pin.
- I/O Pins:** VIO_1, VIO_3, VDD_2, VDD_4, and VDD_5 are connected to their respective pins.
- Peripherals:** OSC32IN and OSC32OUT are connected to the 32kHz oscillator pins. VREF+ and VREF- are connected to the voltage reference pins. VDDA and VSSA are connected to the analog power pins. PA0/PB15, PA1/PB14, PA2/PB13, and PA3/PB12 are connected to the general-purpose I/O pins.
- Encoder:** ENCODER_I-A and ENCODER_I-B are connected to the encoder pins.
- Switch:** SWCLK is connected to the switch pin.

Pin connection diagram for CN3 (X9555WV-2 x 05-PTV01):

- Pin 1: VCC3V3
- Pin 2: SWDIO
- Pin 3: SWCLK
- Pin 4: SWCLK
- Pin 5: PB10
- Pin 6: PB11
- Pin 7: RST
- Pin 8: RST
- Pin 9: RST
- Pin 10: RST

[illegible]

VCC3V3
GND

B13
B15
B7
D7
D4
D0

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

J12
HDR-M-2.54_2x8

E0
E1
E2
E3
E4
E5
E6
E7

Diagram showing the pinout for the H1 connector. The pins are numbered 1 through 8. Pin 1 is connected to VCC3V3. Pin 2 is connected to B3. Pin 3 is connected to B5. Pin 4 is connected to B4. Pin 5 is connected to C10. Pins 6, 7, and 8 are marked with 'X' and are not connected.

Diagram showing the pin configuration of J13 (74VHC04). The chip is a hex inverter. Pin 1 is connected to D5 (green), pin 2 to E10 (blue), pin 3 to D6 (green), pin 4 to GND, pin 5 to GND, pin 6 to E10 (blue), pin 7 to VCC5V, and pin 8 to GND. Pins 2 and 6 are marked with green 'X' symbols.

The schematic diagram illustrates the LED driver circuit for the LED strip. It features two LED modules, LED4 and LED5, both labeled FC-2012HRK-620D. LED4 is connected to a 330Ω resistor (R67) and a 5V supply (VCC5V). LED5 is connected to a 1kΩ resistor (R68) and a 5V supply (VCC). The circuit also includes a 330Ω resistor (R66) connected to a 3V3 supply (VCC3V3). The LED strip is connected to a 3V3 supply (VCC3V3) and a 330Ω resistor (R66). The circuit is powered by a 5V supply (VCC5V) and a 3V3 supply (VCC3V3). The LED strip is connected to a 3V3 supply (VCC3V3) and a 330Ω resistor (R66). The circuit is powered by a 5V supply (VCC5V) and a 3V3 supply (VCC3V3).

GN
VCC

VC

VC

A circuit diagram showing a green line labeled DATA6 connected to a red box labeled R38 1k, which is then connected to a red dot.

A circuit diagram showing a green line labeled DATA7 connected to a red box labeled R39 1k.

R51

R50
3.4k

G
VC
R52