

Camera triggers act as on/off switches

The diagram shows four camera modules, each with five pins. The connections are as follows:

- CAMERA0:** Pin 1 to CAMERA\_PWR, Pin 2 to common ground, Pin 3 to CAMERA0, Pin 4 to CAMERA0\_TRIG, Pin 5 to common ground.
- CAMERA1:** Pin 1 to CAMERA\_PWR, Pin 2 to common ground, Pin 3 to CAMERA1, Pin 4 to CAMERA1\_TRIG, Pin 5 to common ground.
- CAMERA2:** Pin 1 to CAMERA\_PWR, Pin 2 to common ground, Pin 3 to CAMERA2, Pin 4 to CAMERA2\_TRIG, Pin 5 to common ground.
- CAMERA3:** Pin 1 to CAMERA\_PWR, Pin 2 to common ground, Pin 3 to CAMERA3, Pin 4 to CAMERA3\_TRIG, Pin 5 to common ground.

The triggers (CAMERA0\_TRIG, CAMERA1\_TRIG, CAMERA2\_TRIG, CAMERA3\_TRIG) are connected to the CAMERA\_PWR\_DET signal line.

Antenna and filter impedance (50R)

Frequency selection pins  
Digital – 3 bits total  
Refer to datasheet for values

Decoupling capacitors

+3.3V

Pin is held high  
to choose frequency selection mode

+3.3V

DC Block  
(from previous project)

Quartz oscillator  
(from datasheet)

Video input impedance (75R)  
Voltage amplitude peak to peak (1V)

RTC6705

Diagram of the HEF4051BT 8-to-1 multiplexer circuit. The chip is shown with its pins and connections:

- VDD** (Pin 16) is connected to +5V.
- VEE** (Pin 7) is connected to ground.
- SEL1** (Pin 11) and **SEL2** (Pin 10) are the select inputs, labeled "Digital - 2 bits total".
- S1** (Pin 11), **S2** (Pin 10), and **S3** (Pin 9) are the data inputs.
- Y0** (Pin 13), **Y1** (Pin 14), **Y2** (Pin 15), **Y3** (Pin 12), **Y4** (Pin 1), **Y5** (Pin 5), **Y6** (Pin 2), and **Y7** (Pin 4) are the data outputs.
- Z** (Pin 3) is the output, connected to a red arrow.
- VSS** (Pin 8) is connected to ground.

The chip is labeled **HEF4051BT**.

The diagram shows a circuit with a green wire entering from the left. This wire splits into two parallel branches. The top branch contains a capacitor labeled 'C10' with a value of '1u'. The bottom branch contains a resistor labeled 'R1' with a value of '10k'. These two branches rejoin. Following the junction, the wire passes through a resistor labeled 'R3' with a value of '10k' connected to ground. The entire circuit is enclosed in a dashed blue box.

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