

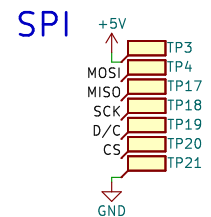


J3  
Conn\_01x34

34  
33  
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29 RGB\_B7  
28 RGB\_B6  
27 RGB\_B5  
26 RGB\_B4  
25 RGB\_B3  
24 RGB\_B2  
23 RGB\_B1  
22 RGB\_B0  
21 RGB\_G7  
20 RGB\_G6  
19 RGB\_G5  
18 RGB\_G4  
17 RGB\_G3  
16 RGB\_G2  
15 RGB\_G1  
14 RGB\_G0  
13 RGB\_R7  
12 RGB\_R6  
11 RGB\_R5  
10 RGB\_R4  
9 RGB\_R3  
8 RGB\_R2  
7 RGB\_R1  
6 RGB\_R0  
5 RGB\_VSYNC  
4 RGB\_EN  
3 RGB\_HSYNC  
2 RGB\_CLK  
1

GND

GND



The schematic diagram illustrates the SSD2828BQ4N camera module and its connections to the PCB. The module is a yellow rectangle labeled 'U1 SSD2828BQ4N'. It has various pins for power, data, and control. Power pins include VDDIO (3.3V), VDDP (1.2V), and VDDA (1.8V). Data pins include MIPI\_DATA0 through MIPI\_DATA7. Control pins include RESET, SHUT, and CSX0. The module is connected to a PCB with components like capacitors (C1, C5, C7, C9, C11, C12) and a crystal (Y1). The PCB also shows connections to a microcontroller (MCU) and a display (DISP).

**Module Pins and Connections:**

- Power:**
  - VDDIO (3.3V) connected to +3V3
  - VDDP (1.2V) connected to +1V2
  - VDDA (1.8V) connected to +1V8
- Data:**
  - MIPI\_DATA0 through MIPI\_DATA7 connected to the MIPI interface
- Control:**
  - RESET connected to the MCU
  - SHUT connected to the MCU
  - CSX0 connected to the MCU

**PCB Components:**

- Capacitors:** C1 (27pf), C5 (0.1uf), C7 (0.1uf), C9 (0.1uf), C11 (0.1uf), C12 (10uf)
- Crystal:** Y1 (24mhz)

**Connections to MCU and Display:**

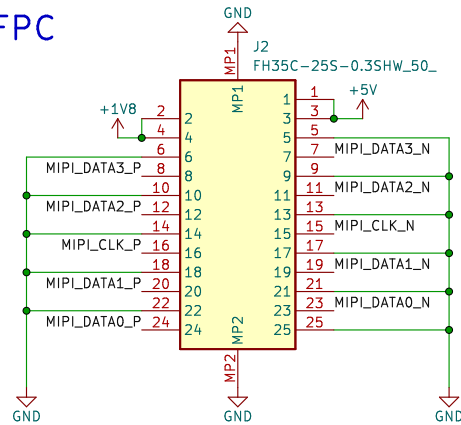
- MCU:** Connected to the module's control pins (RESET, SHUT, CSX0) and power pins (+3V3, +1V2, +1V8).
- Display:** Connected to the module's data pins (MIPI\_DATA0 through MIPI\_DATA7) and power pins (+3V3, +1V2, +1V8).

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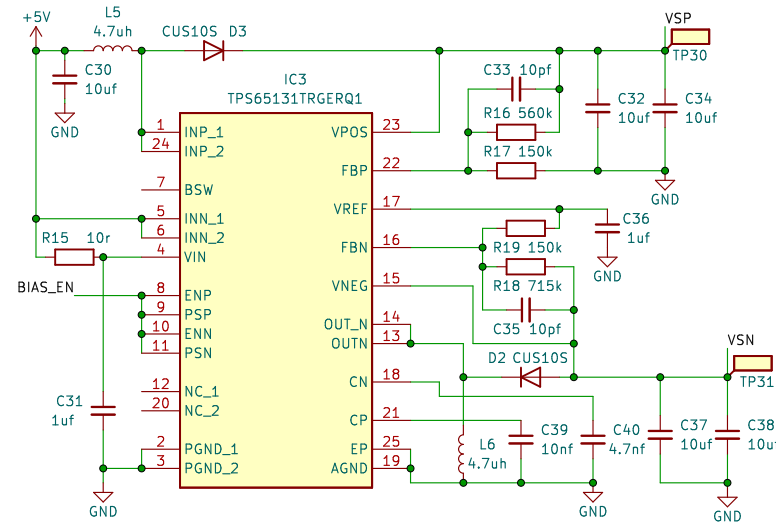
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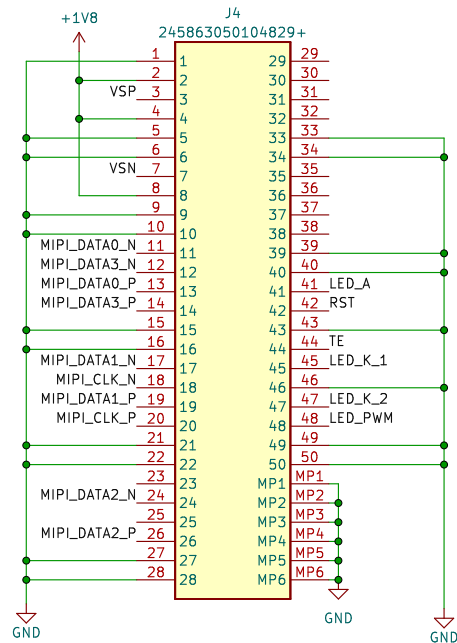
## MIPI FPC



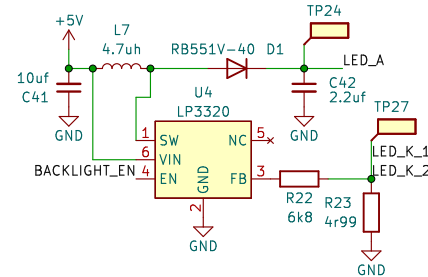
## LCD BIAS



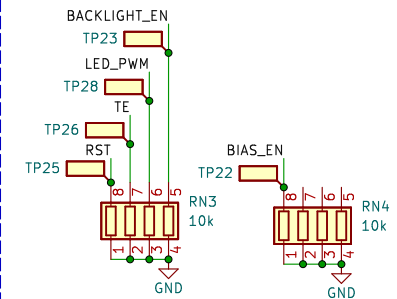
## DISP MEZZANINE



## BACKLIGHT DRIVER



## TEST POINTS



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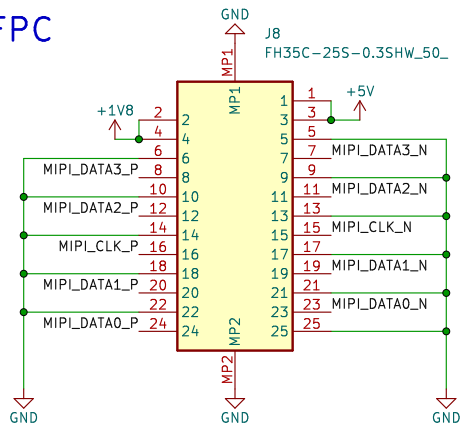
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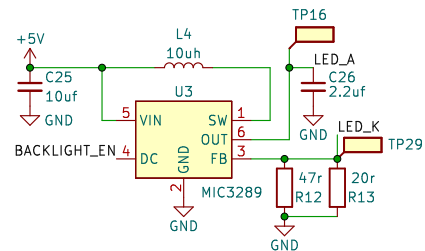
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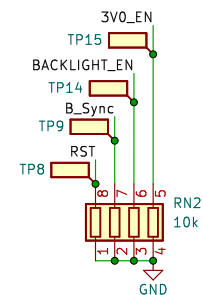
## MIPI FPC



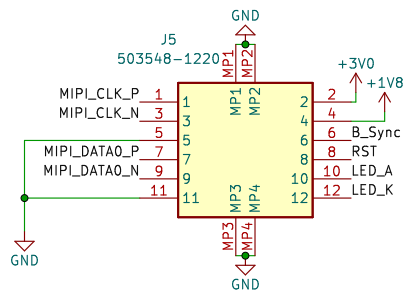
## BACKLIGHT DRIVER



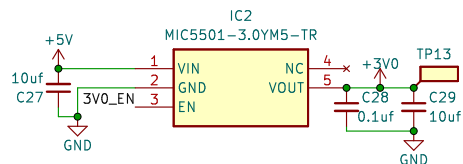
## TEST POINTS



DISP MEZZANINE



## 3V0 BUCK



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