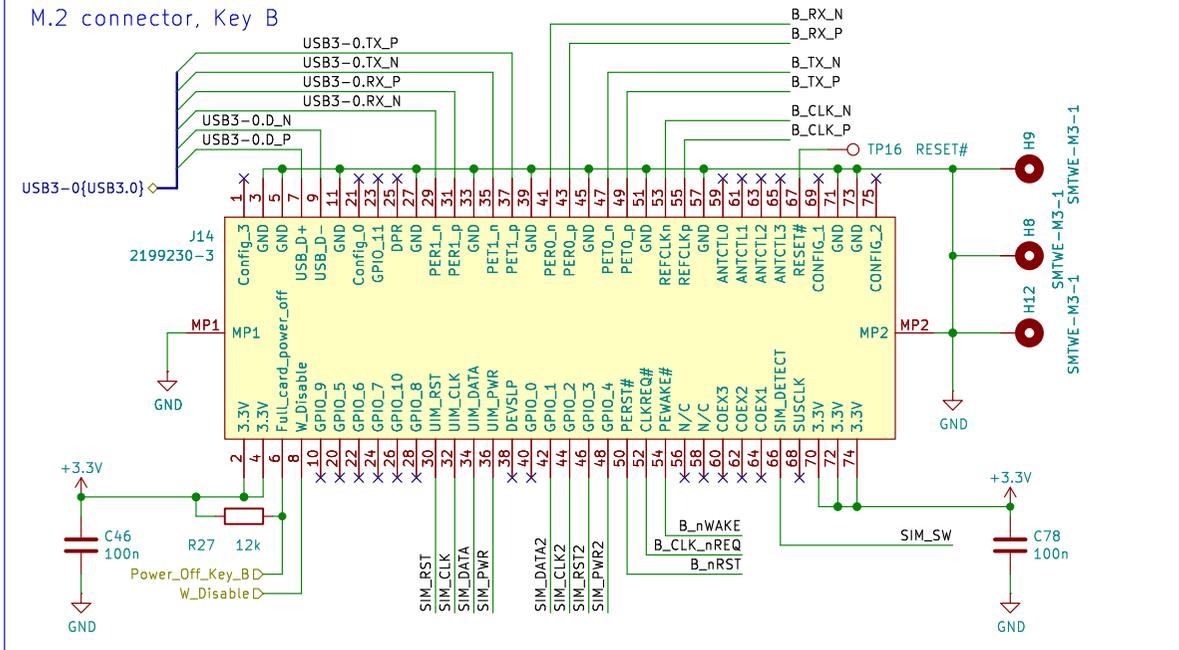
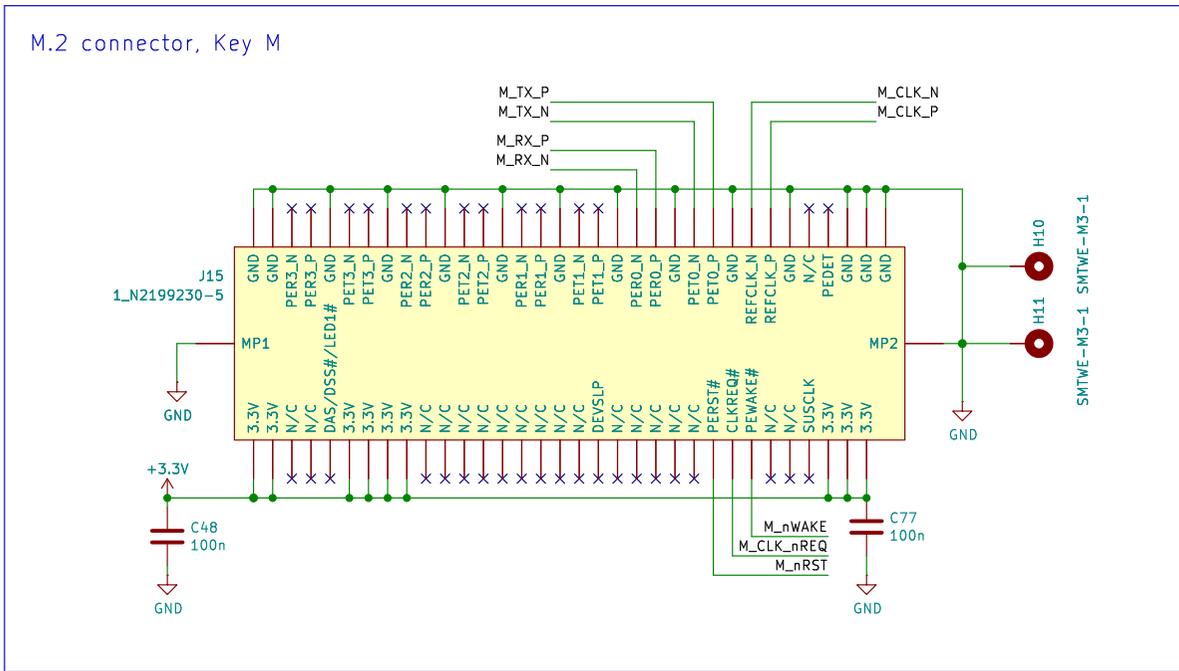




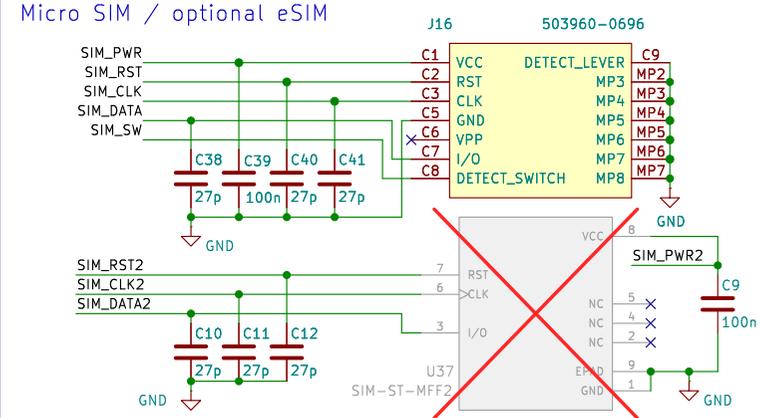
### M.2 connector, Key B



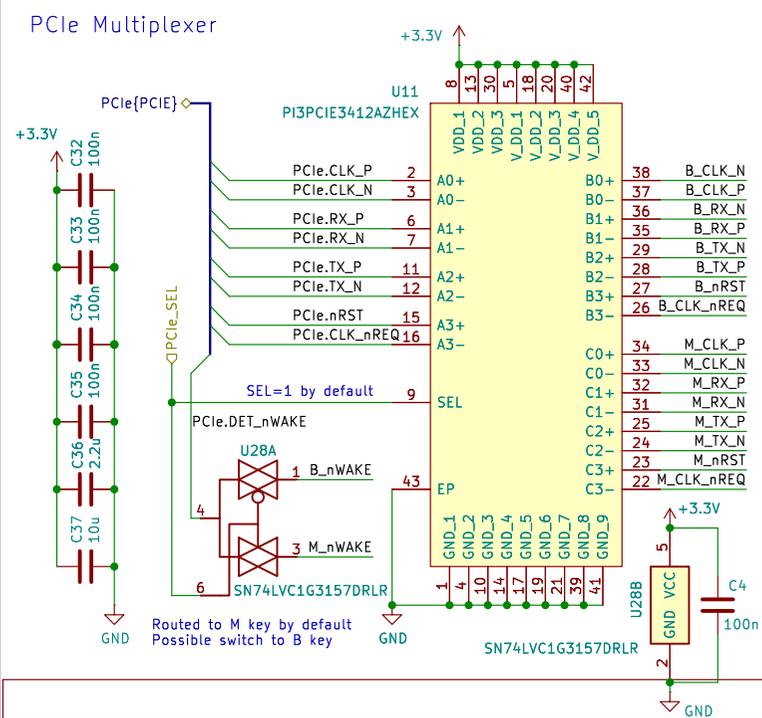
### M.2 connector, Key M



### Micro SIM / optional eSIM



### PCIe Multiplexer



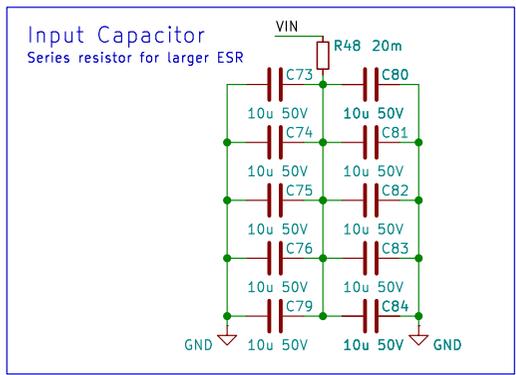
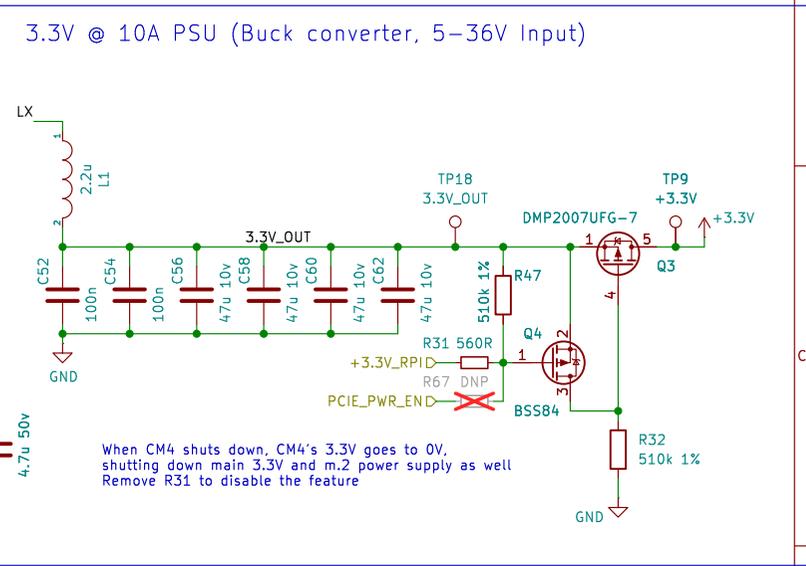
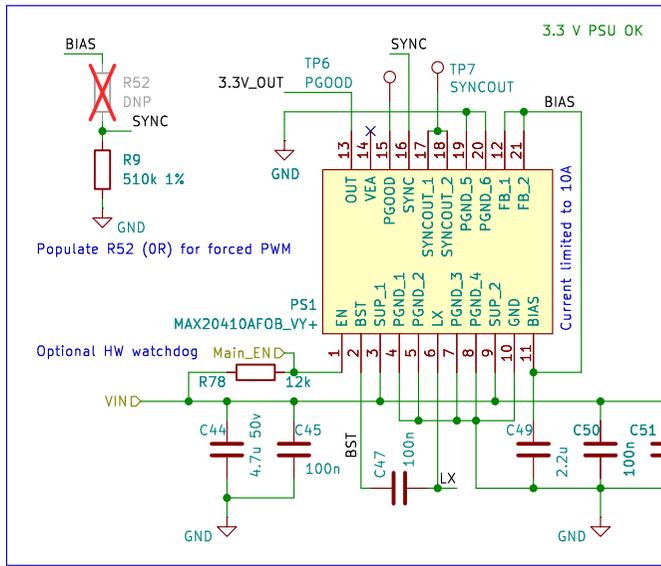
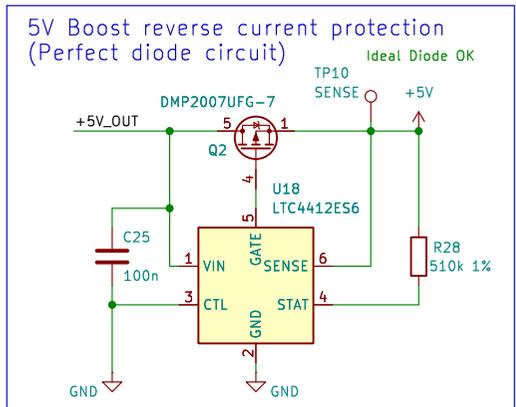
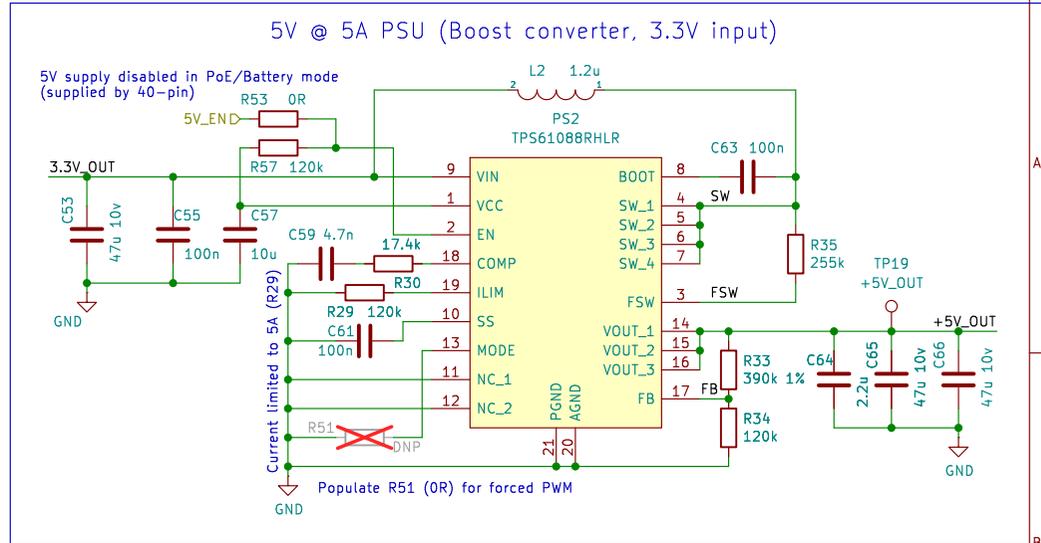
www.oratek.com

Sheet: /M.2\_connectors/  
File: TOFU5\_M2-connectors.kicad\_sch

**Title: TOFU5+**

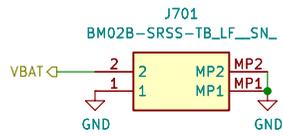
Size: A4 Date: 2026-01-06  
KiCad E.D.A. 9.0.6

Rev: 1.3  
Id: 5/11

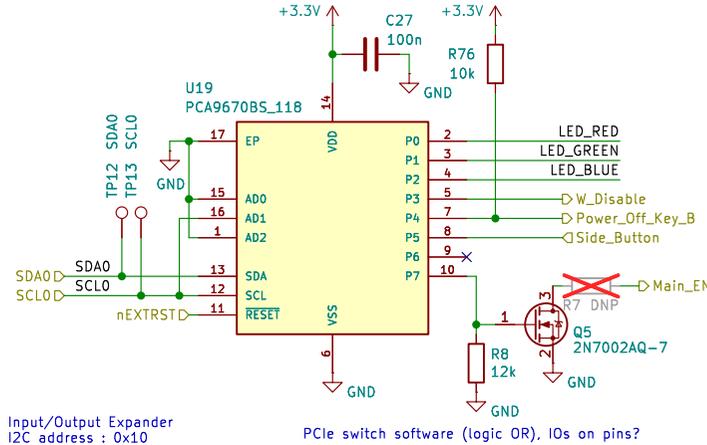


www.oratek.com	
Sheet: /PSU/ File: TOFU5_PSU.kicad_sch	
<b>Title: TOFU5+</b>	
Size: A4	Date: 2026-01-06
KiCad E.D.A. 9.0.6	Rev: 1.3 Id: 6/11

### RTC Battery connector

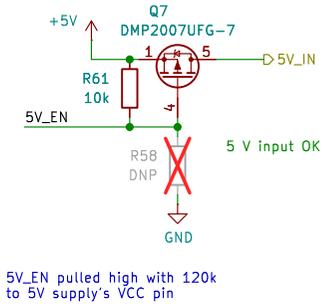


### GPIO expander

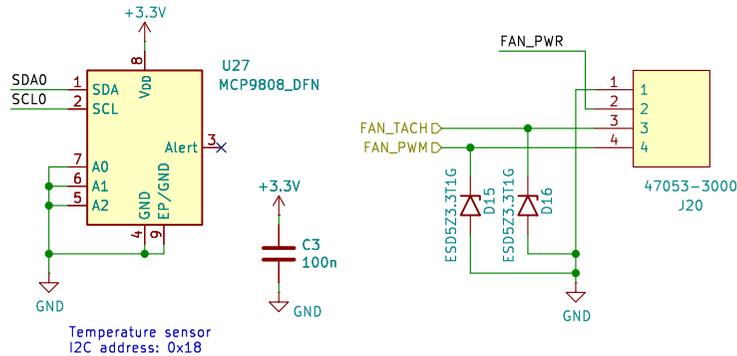


### 5V Input / Output mode

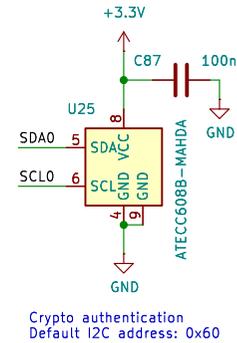
During normal operation, the 5V on the 40-pin header is a power output only. When in Input mode (switch in position 'on'), the internal 5V supply is cut and the board is powered from the 40-pin header (5V input)



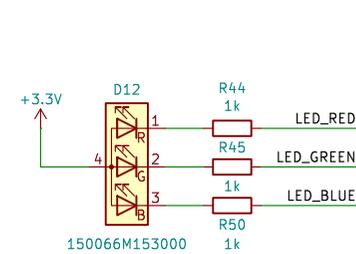
### Fan controller, 1A max, 5V (default) or VIN Temperature sensor



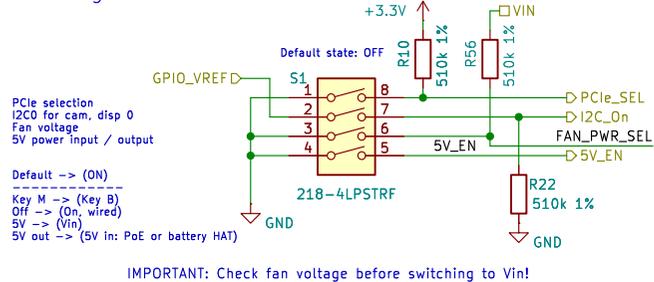
### Device authentication



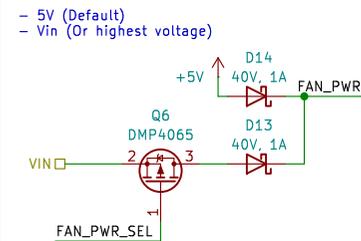
### RGB LED



### Configuration DIP switch



### Fan Power Selection



www.oratek.com

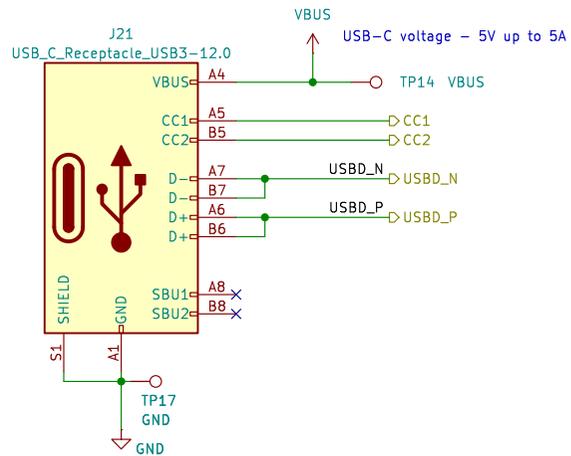
Sheet: /OnboardDevices/  
File: TOFU5\_OnboardDevices.kicad\_sch

**Title: TOFU5+**

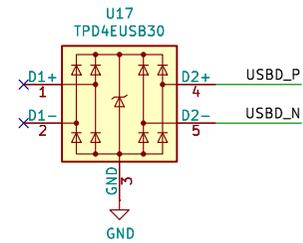
Size: A4 Date: 2026-01-06  
KiCad E.D.A. 9.0.6

Rev: 1.3  
Id: 7/11

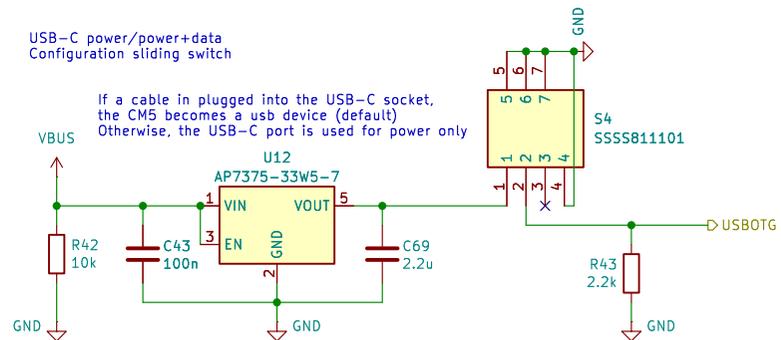
## USB-C Port



## ESD protection



## USB-C power/power+data Configuration sliding switch



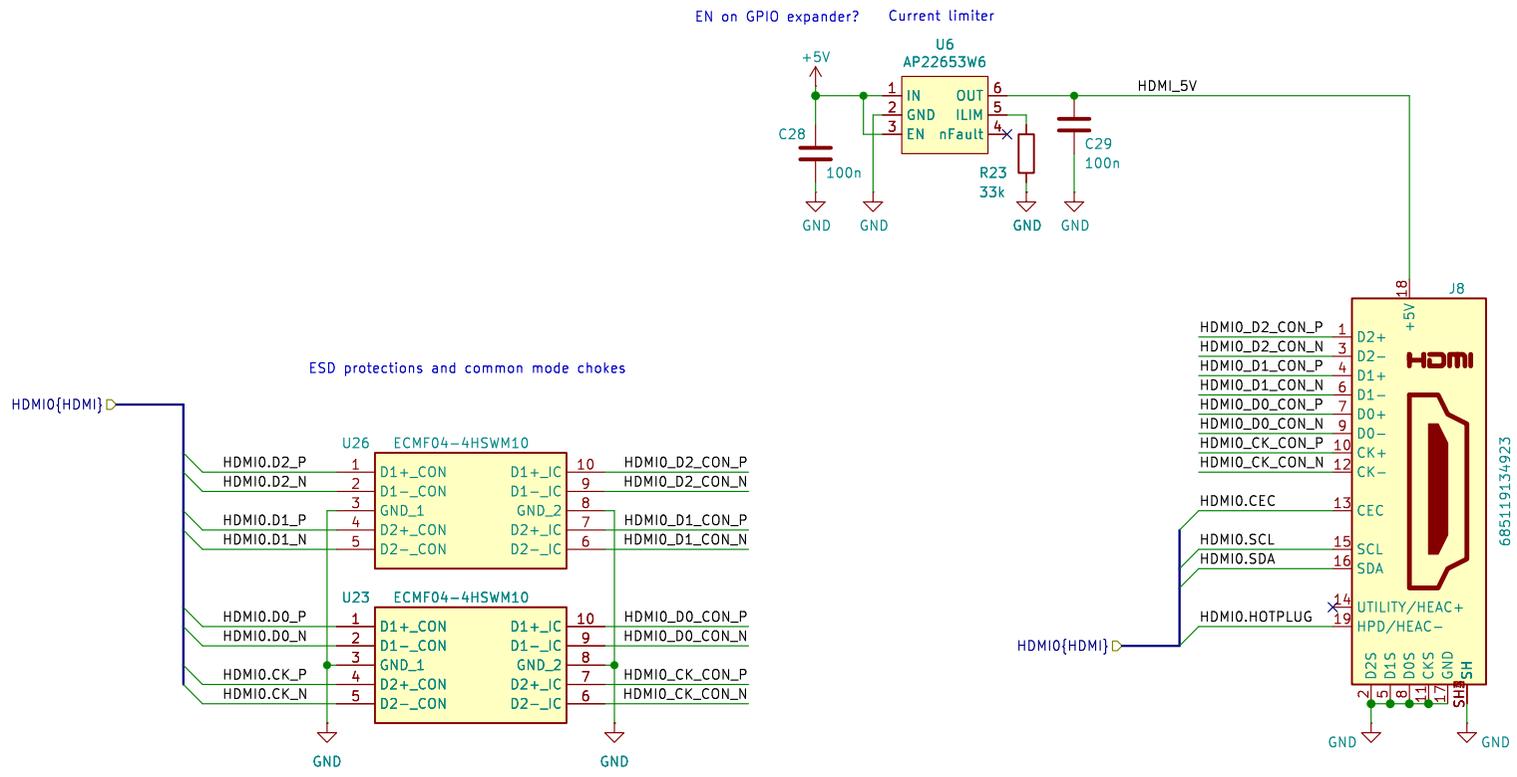
www.oratek.com

Sheet: /USB-C/  
 File: TOFU5\_USB-C.kicad\_sch

**Title: TOFU5+**

Size: A4 Date: 2026-01-06  
 KiCad E.D.A. 9.0.6

**Rev: 1.3**  
 Id: 8/11



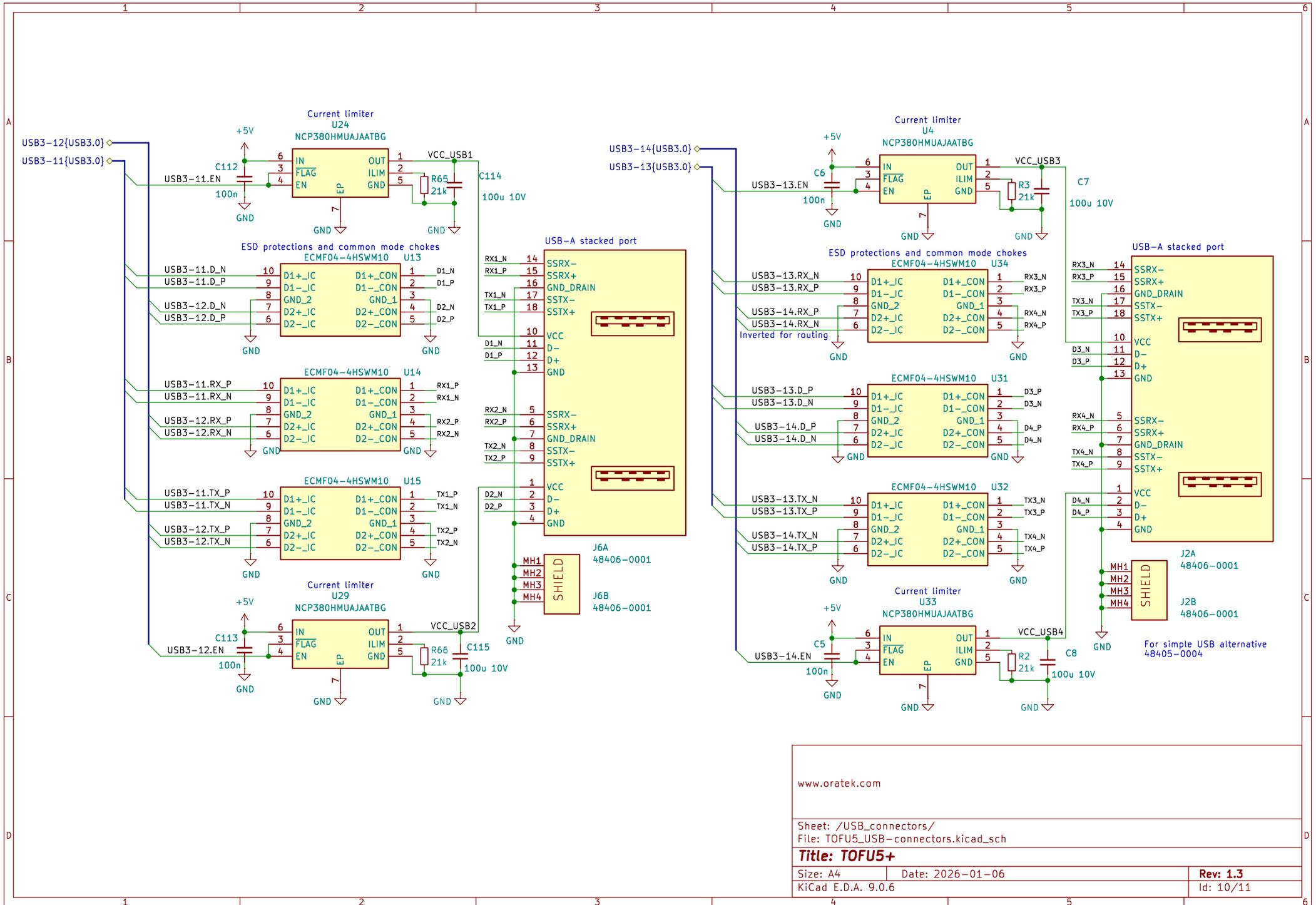
www.oratek.com

Sheet: /HDMI/  
File: TOFU5\_HDMI.kicad\_sch

**Title: TOFU5+**

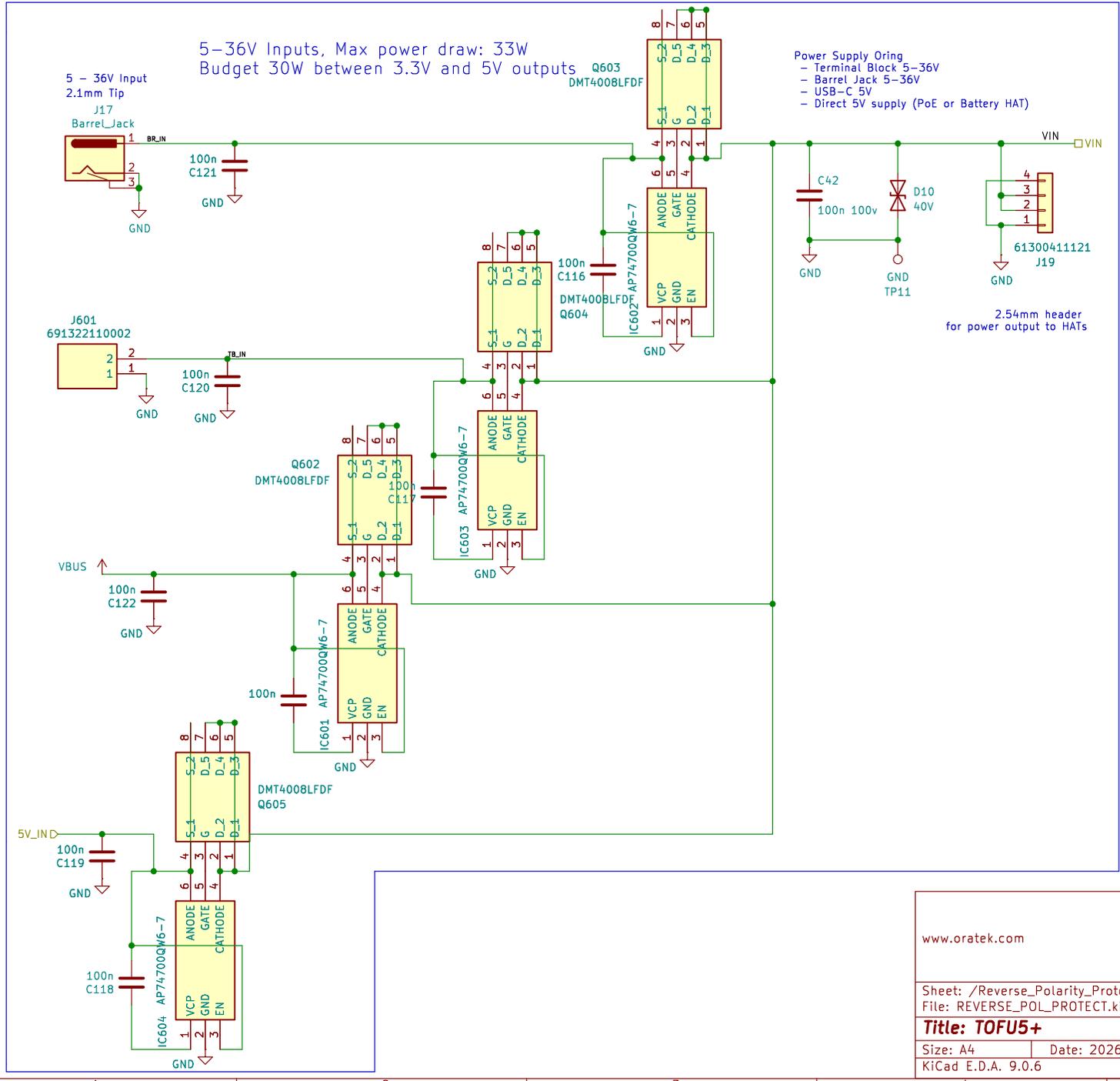
Size: A4 Date: 2026-01-06  
KiCad E.D.A. 9.0.6

**Rev: 1.3**  
Id: 9/11



www.oratek.com	
Sheet: /USB_connectors/ File: TOFU5_USB-connectors.kicad_sch	
<b>Title: TOFU5+</b>	
Size: A4	Date: 2026-01-06
KiCad E.D.A. 9.0.6	Rev: 1.3 Id: 10/11

5-36V Inputs, Max power draw: 33W  
 Budget 30W between 3.3V and 5V outputs



- Power Supply Oring
- Terminal Block 5-36V
  - Barrel Jack 5-36V
  - USB-C 5V
  - Direct 5V supply (PoE or Battery HAT)

2.54mm header  
for power output to HATs

www.oratek.com

Sheet: /Reverse\_Polarity\_Protection/  
 File: REVERSE\_POL\_PROTECT.kicad\_sch

**Title: TOFU5+**

Size: A4 Date: 2026-01-06  
 KiCad E.D.A. 9.0.6

Rev: 1.3  
 Id: 12/11