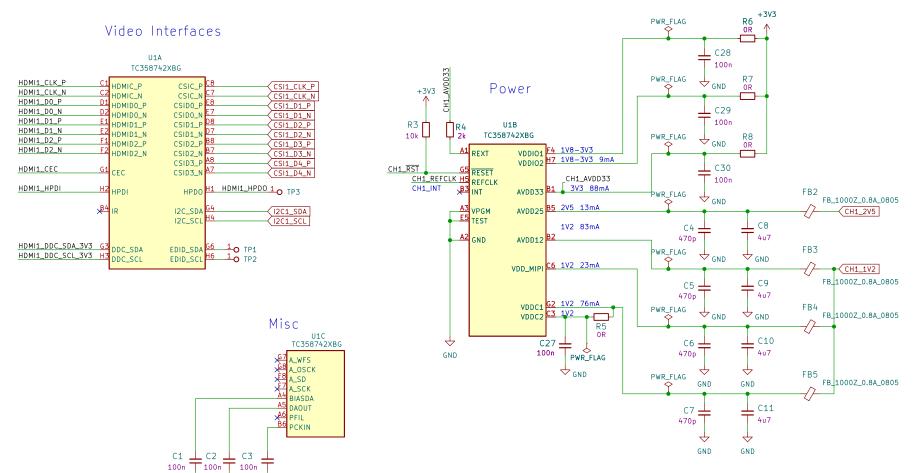
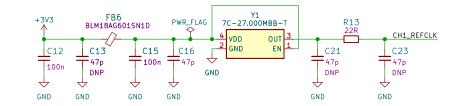


#### Connectors J2 47151-1001 TMDS\_Data2+ J3 5051101992 TMDS\_Data2\_Shield TMDS\_Data2-HDMI1\_D1\_P TMDS\_Data1+ U2 +3V3 5 TMDS\_Data1\_Shield TMDS\_Data1 -TPD8S009DSMR HDMI1\_D1\_N HDMI1\_D0\_P TMDS\_Data0+ HDMI1\_D2\_N HDMI1\_D1\_P 8 TMDS\_Data0\_Shield 9 TMDS\_Data0 -HDMI1\_DO\_N HDMI1\_CLK\_P 4 D1+ HDMI1\_D0\_N HDMI1\_D1\_N HDMI1\_D0\_P 6 7 D2+ HDMI1\_CLK\_P LO TMDS\_Clock+ HDMI1\_DO\_N HDMI1\_DO\_N 9 D2-HDMI1\_CLK\_P 10 D3+ HDMI1\_CLK\_N 12 D3-11 TMDS\_Clock\_Shield 12 TMDS\_Clock HDMI1\_CLK\_N HDMI1\_CEC DUMMY1 DUMMY1 HDMI1 DDC SDA 1 HDMI1\_DDC\_SCL HDMI1\_DDC\_SDA HDMI1\_POWER HDMI1\_HPD PWR\_FLAG HDMI1\_HPD Hot\_Plug\_Detect HDMI1\_POWER 18 +5V\_Power 17 DDC/CEC\_Ground SHIELD PWR\_FLAG HDMI1\_HPD ... HDMI1\_POWER HDMI1\_HPDI DNP FB\_120Z\_3A\_0603 GND

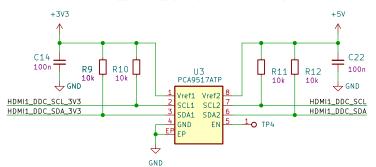
Converter IC



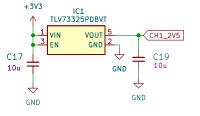
## 27MHz Oscillator

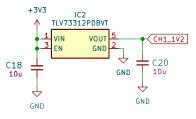


## 12C Level Shifter



## Voltage Regulators









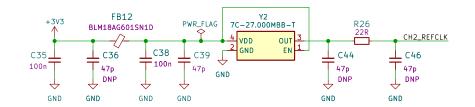
GND

GND

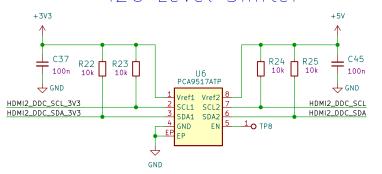
GND

#### Connectors 47151-1001 TMDS\_Data2+ J5 5051101992 TMDS Data2 Shield HDMI2\_D2\_N HDMI2\_D2\_P MDS\_Data2-HDMI2\_D2\_N HDMI2\_D1\_F MDS\_Data1+ 5 TMDS\_Data1\_Shield U5 +3V3 HDMI2 D1 N TMDS\_Data1-TPD8S009DSMR A HDMI2\_D1\_N HDMI2\_D0\_P TMDS\_Data0+ HDMI2\_D2\_P HDMI2\_D2\_N HDMI2\_D1\_P TMDS\_DataO\_Shield HDMI2\_D0\_N HDMI2\_CLK\_P 3 4 D1+ HDMI2\_D0\_N TMDS\_Data0-6 D1-7 D2+ \_\_\_\_\_\_TMDS\_Clock+ \_\_\_\_\_TMDS\_Clock\_Shield HDMI2 DO P HDMI2\_CLK\_N HDMI2\_DO\_N 9 D2 -HDMI2\_CLK\_P 10 D3 + HDMI2\_CLK\_N 12 D3 - GND HDMI2\_D0\_N HDMI2\_CEC TMDS\_Clock- DUMMY2 14 HDMI2\_DDC\_SCL 15 HDMI2\_CEC HDMI2\_DDC\_SDA HDMI2\_DDC\_SCL HDMI2\_POWER HDMI2\_DDC\_SDA HDMI2\_HPD GND Hot\_Plug\_Detect 18 +5V\_Power 17 DDC/CEC\_Ground SHIELD HDMI2\_POWER HDMI2\_HPD R14 PWR\_FLAG FB7 HDMI2\_POWER HDMI2\_HPDI DNP FB\_120Z\_3A\_0603

## 27MHz Oscillator

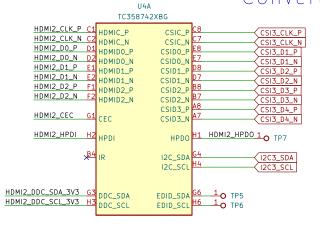


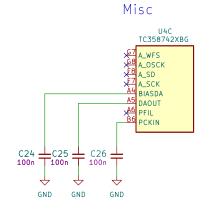
### 12C Level Shifter

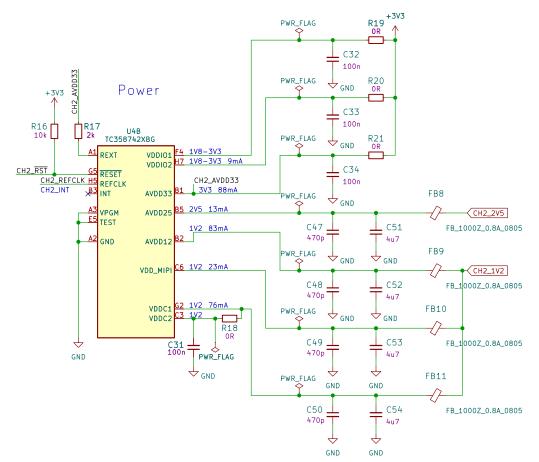


### Video Interfaces

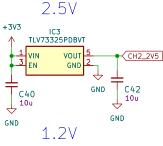


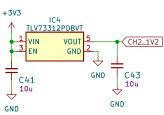






# Voltage Regulators

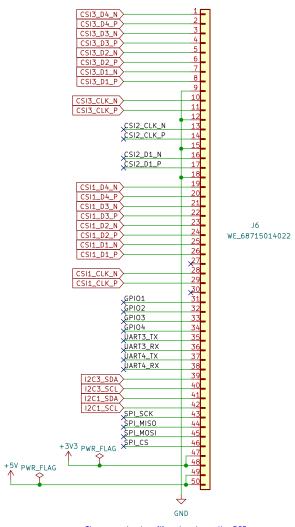








### Camera board connector



The connector has flipped pads on the PCB To make it compatible with TK1, TX1 boards





SP1	SP3
Spacer_H6mm_9774060151	Spacer_H6mm_9774060151
GND SP2	GND SP4
Spacer_H6mm_977406015	61 Spacer_H6mm_9774060151
GND	GND

Sheet: /CSI/					
File: csi.kicad_sch					
Title: HDMI-MIPI Bridge					
	Size: A3	Date: 2023-07-20		Rev: 1.3.1	
	KiCad E.D.A. ee:	schema 6.0.11+dfsg-1~bpo11+1		ld: 4/4	