

VCC_SYS VCC_SYS VCC System Power, it come from external or USB power

VCCIO VCCIO CX3 IO Power

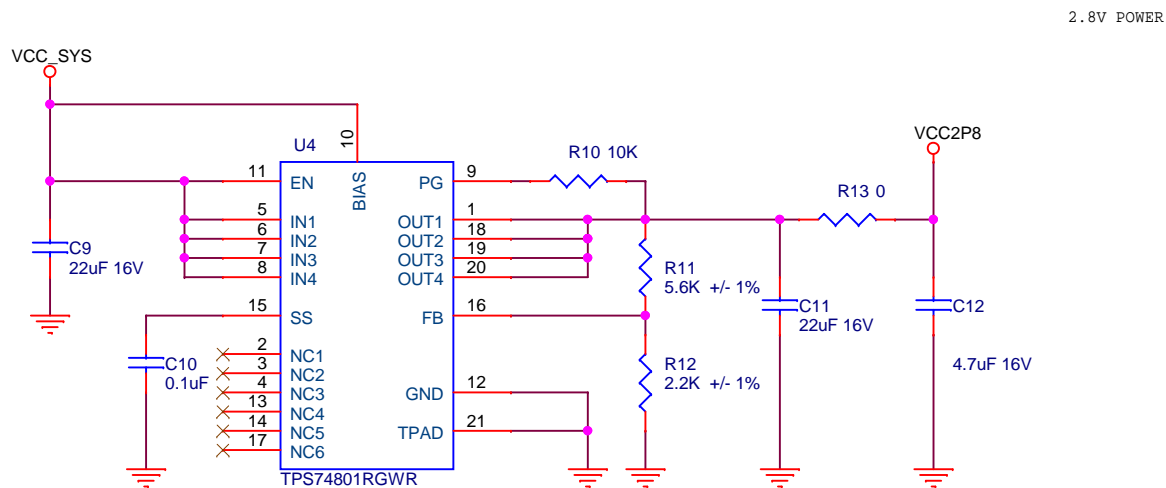
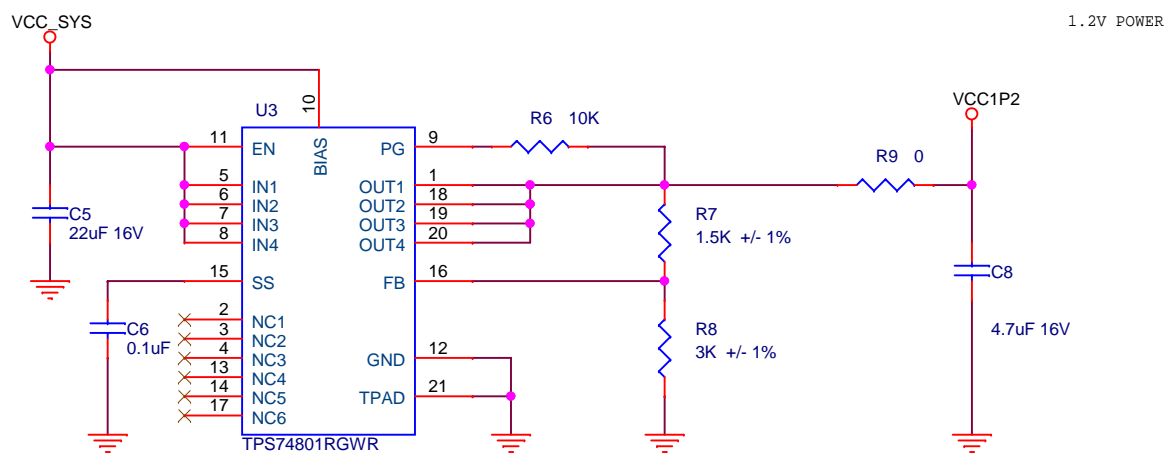
VCCIO4 VCCIO4 CX3 IO Power

VCC1P2 VCC1P2 1.2V Pwer

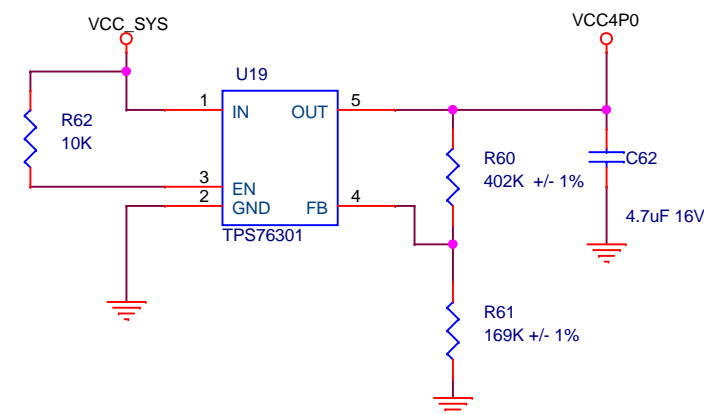
VCC3P3 VCC3P3 3.3V power

VCC2P8 VCC2P8 2.8V power

VCC4P0 VCC4P0 4V power



2.8V POWER



4.0V POWER

Title		
Power Controller 1		
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U11

16 15 14 13 12 11 10 9

VCC3P3

TLC5916

1 2 3 4 5 6 7 8

GND SDI CLK ED1 ED2 /OUT0 /OUT1 /OUT2 /OUT3

R34 1K R35 1K R36 1K R37 1K

LEDCON1 LEDCON2 LEDCON3 LEDCON4

TLC5916 SDO TLC5916 ED2

TLC5916_CLK	R64	0	CX_GPIO19
TLC5916_SDI	R65	0	CX_GPIO20
TLC5916_SDO	R66	0	CX_GPIO21
TLC5916_ED2	R67	0	CX_GPIO22
TLC5916_ED1	R68	0	CX_GPIO25

The four diagrams illustrate the power and ground connections for the 74VHC04 hex inverters:

- VCC3P3:** The pin is connected to a 3.3V power supply.
- VCC5P:** The pin is connected to a 5V power supply.
- GND:** The pin is connected to ground.
- VCC4P:** The pin is connected to a 4V power supply.

Wiring diagram for J1 connector:

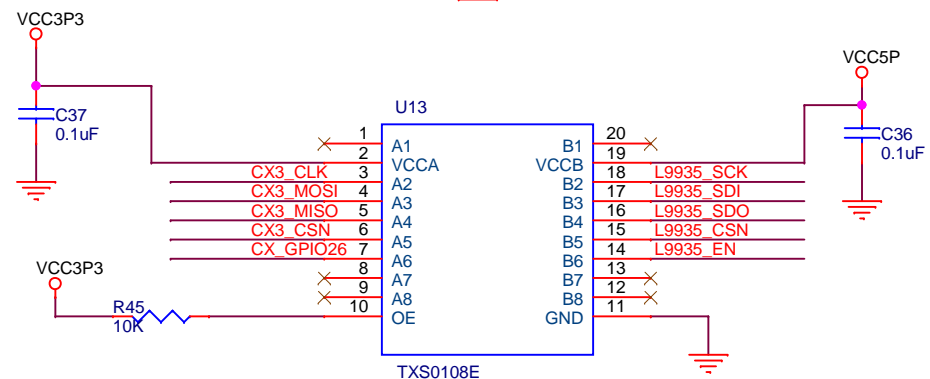
- 1: LEDCONL1
- 2: LEDCONL2
- 3: LEDCONL3
- 4: LEDCONL4
- 5: (unlabeled)
- 6: (unlabeled)
- 7: PI_EMITTER
- 8: PI_ANODE
- 9: PI_CATHODE
- 10: STEPPING MOTOR_A_BAR
- 11: STEPPING MOTOR_A_BAR
- 12: STEPPING MOTOR_B_BAR
- 13: STEPPING MOTOR_B_BAR

Power connections:

- VCC3P3 is connected to pins 1, 2, 3, 4, 5, 6, and 7.
- Ground is connected to pins 8, 9, 10, 11, 12, and 13.

Diagram showing the pin connections for the CX3 module:

- CX3_CLK connects to CX3_CLK
- CX3_MOSI connects to CX3_MOSI
- CX3_MISO connects to CX3_MISO
- CX3_CSN connects to CX3_CSN
- CX_GPIO26 connects to CX_GPIO26



Title LED Driver and AF Controller			
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