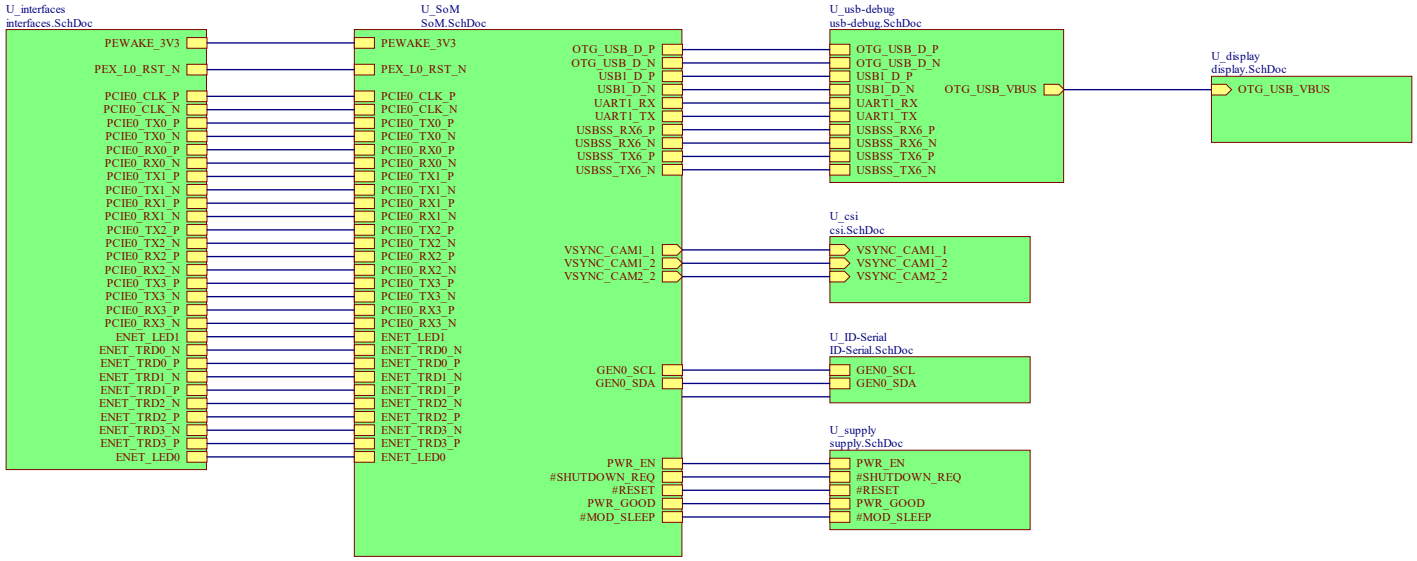

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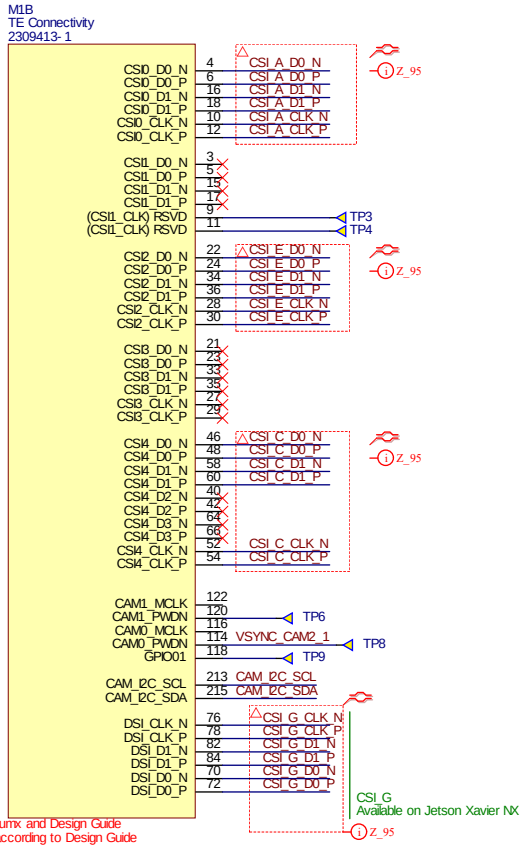
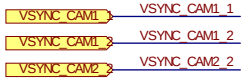
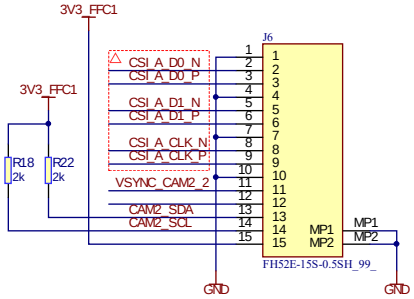
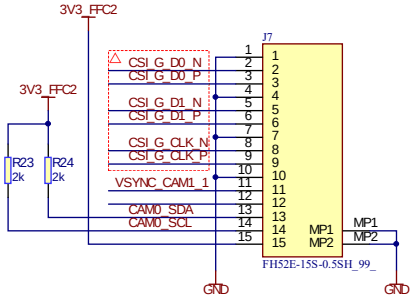
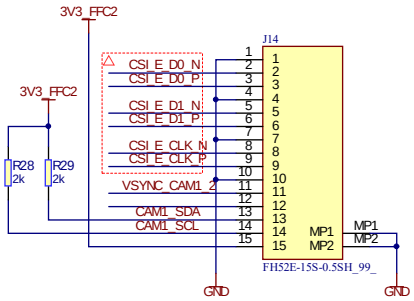
SoM interface

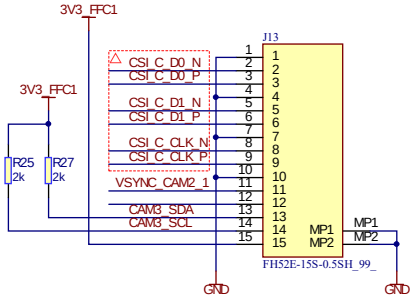




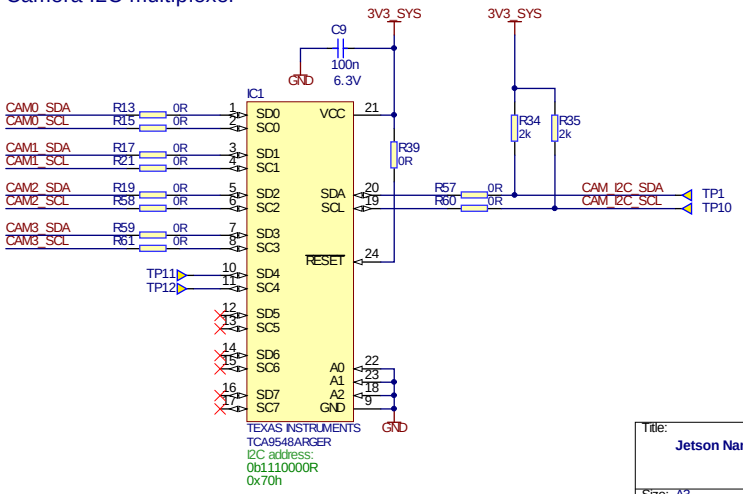








Camera I2C multiplexer



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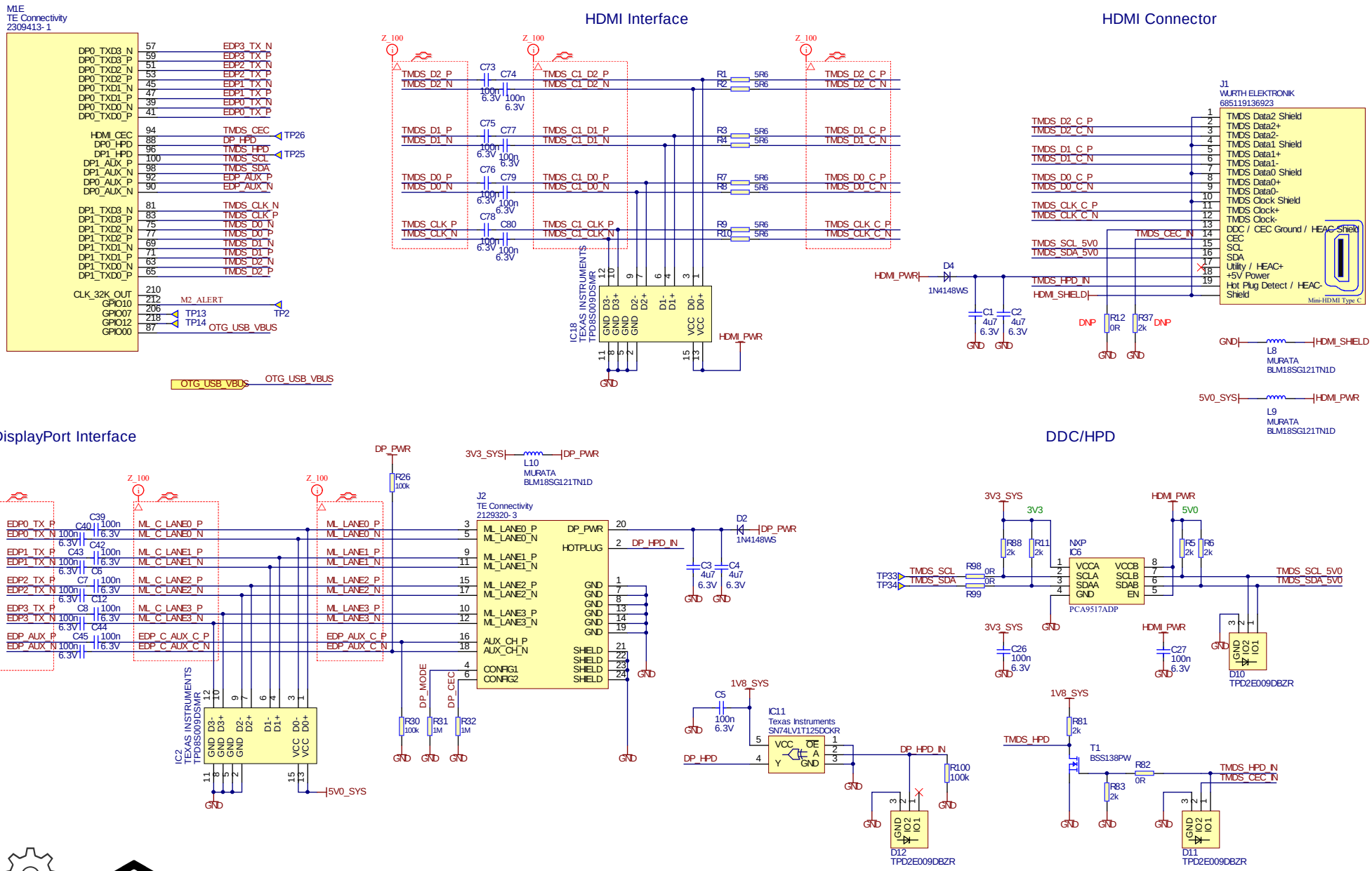
M1E
TE Connectivity
2309413-1
HDMI Interface
HDMI Connector
J1
WURTH ELEKTRONIK
685119136923
TMDS Data2 Shield
TMDS Data2+
TMDS Data2-
TMDS Data1 Shield
TMDS Data1+
TMDS Data1-
TMDS Data0 Shield
TMDS Data0+
TMDS Data0-
TMDS Clock Shield
TMDS Clock+
TMDS Clock-
DDC / CEC Ground / HEAC-Shield
CEC
SCL
SDA
Utility / HEAC+
+5V Power
Hot Plug Detect / HEAC-Shield
Mini-HDMI Type C
IC18
TEXAS INSTRUMENTS
TPD8S009DSMR
D4
1N4148WS
L8
MURATA
BLM18SG121TN1D
L9
MURATA
BLM18SG121TN1D
DisplayPort Interface
J2
TE Connectivity
2129320-3
L10
MURATA
BLM18SG121TN1D
IC2
TEXAS INSTRUMENTS
TPD8S009DSMR
D2
1N4148WS
DDC/HPD
IC6
NXP
PCA9517ADP
IC11
Texas Instruments
SN74LV1T125DCKR
T1
BSS138PW
D10
TPD2E009DBZR
D11
TPD2E009DBZR
D12
TPD2E009DBZR
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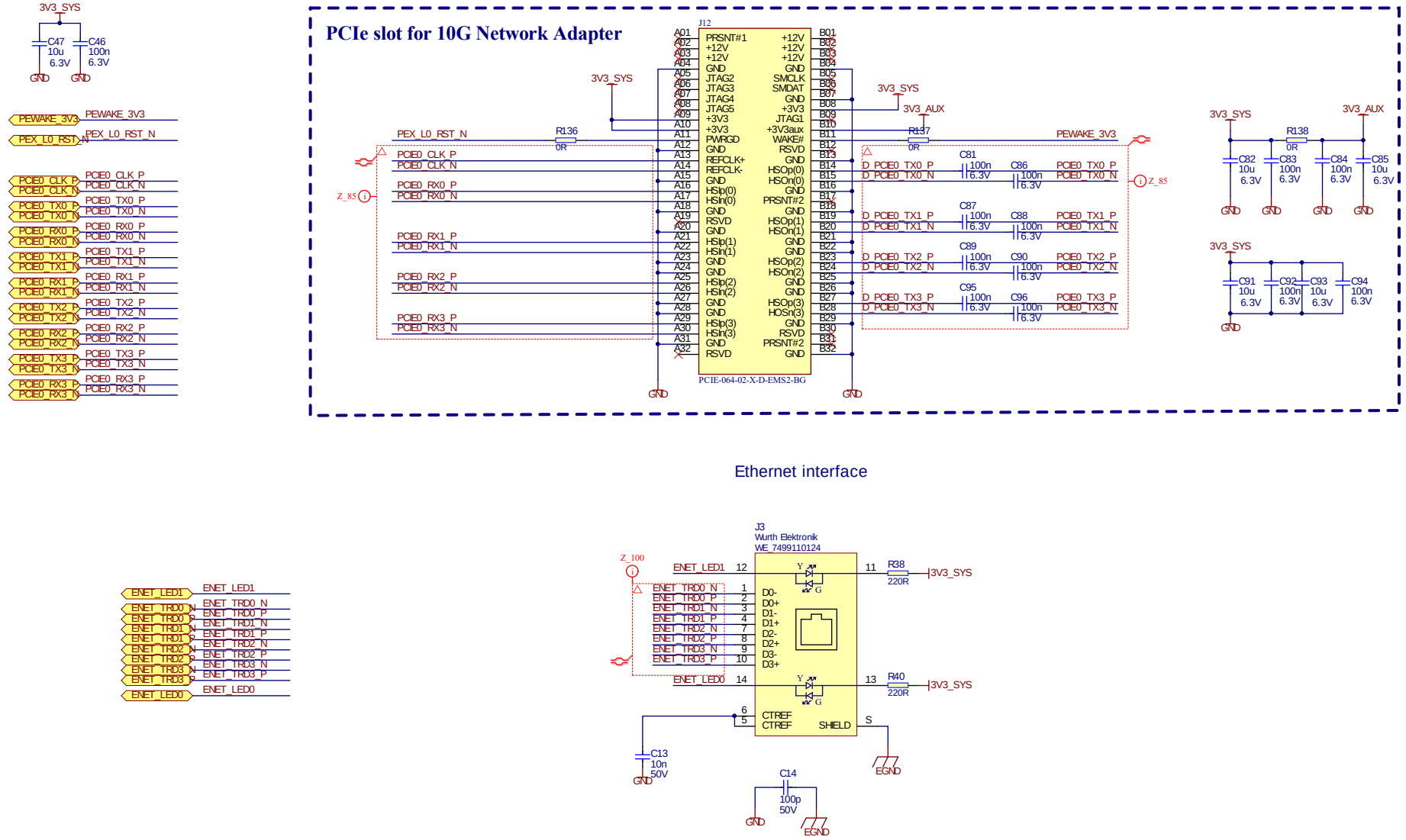

Ethernet interface

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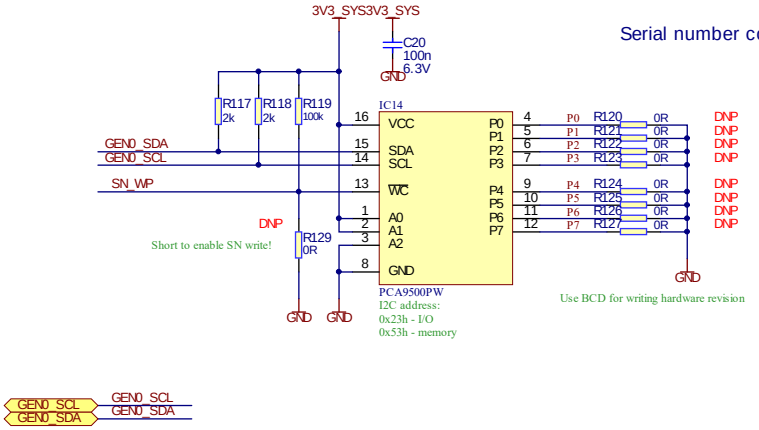
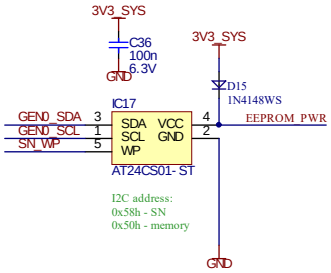
GPIO expander

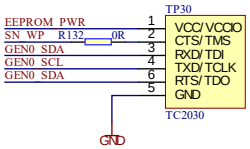


Serial number coding

EEPROM with Unique ID

TX2 uses RM24C128





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SoM interfaces

Please check with Nvidia before using functions that end with a '*'

M1A
TE Connectivity
2309413-1

M1C
TE Connectivity
2309413-1

M1D
TE Connectivity
2309413-1

M1G
TE Connectivity
2309413-1

M1F
TE Connectivity
2309413-1

PCIE1 breakout

J10
PCA-6L-10-HU-3-T/R

Bypass Capacitors

C10 100u 6.3V
C11 100u 6.3V
BAT1 MS621FE-FL11E

System Buttons

E-SWITCH TL3340AF160QG
RST
REC
USR
R112 100k

Module power

F1 1206L450SLWR

System Status

R14 470R BOOT T2 BSS138PW
R97 470R PWR T4 BSS138PW
R111 470R USER T5 BSS138PW
R113 100k

Mounting studs

SP1 SP2 SP3 SP4 SP5 SP6
9774060151

Mechanical model

M2
Jetson Nano

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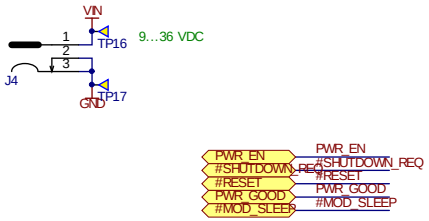
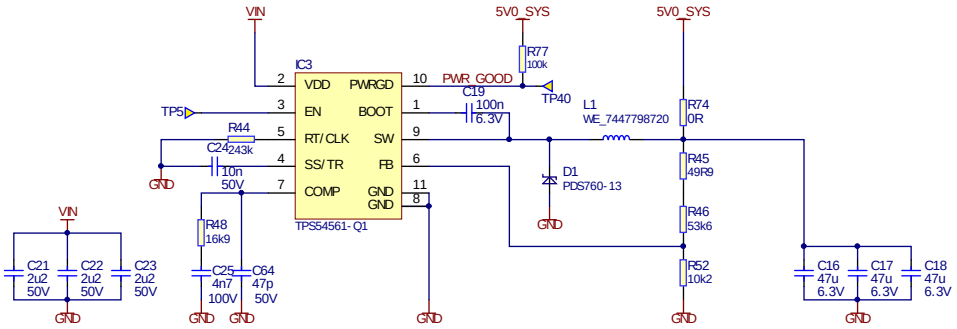
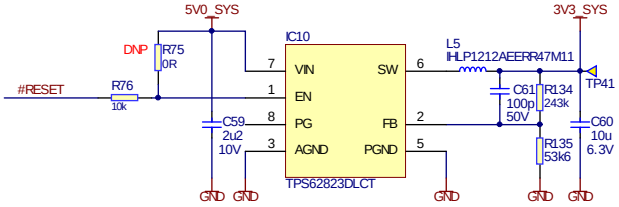
Power input



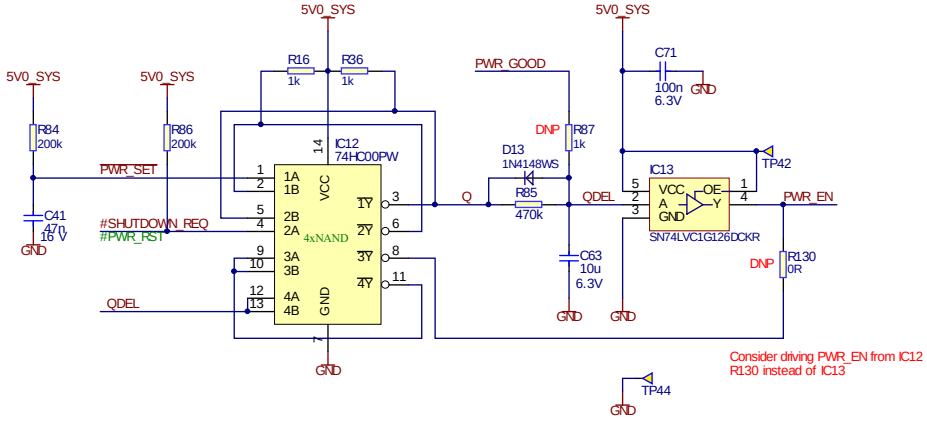
Main DC/DC



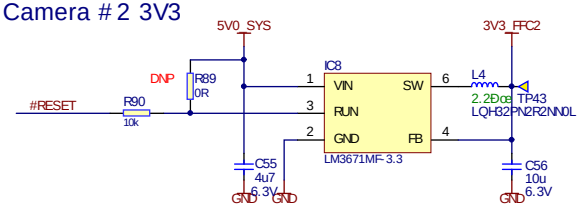
System 3V3



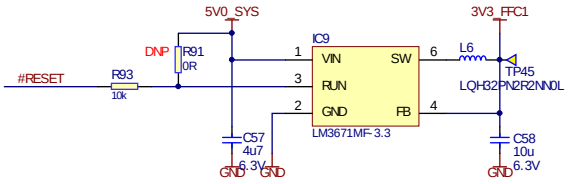
Power sequencer



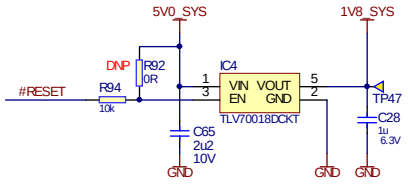
Camera # 2 3V3



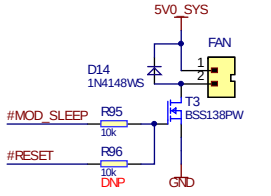
Camera # 1 3V3



System 1V8



FAN 5V



#MOD_SLEEP - fan off in sleep and shutdown
#RESET - fan off only in shutdown

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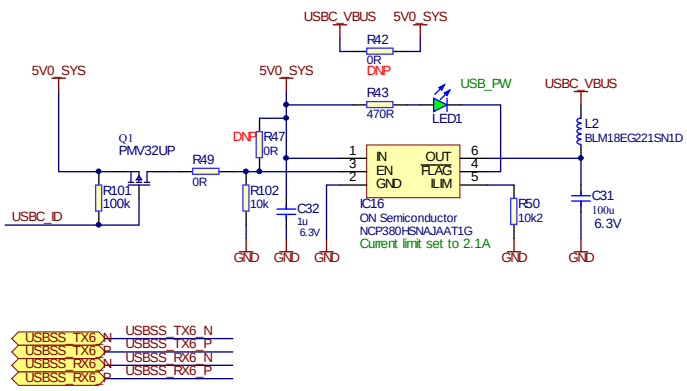
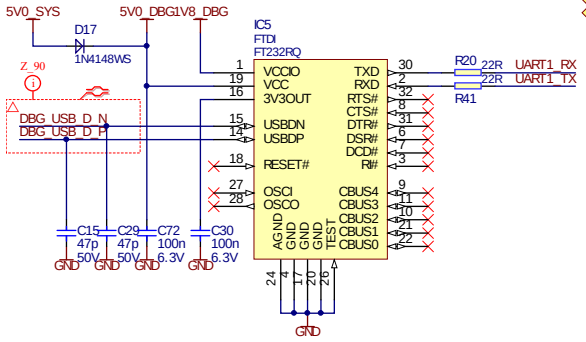
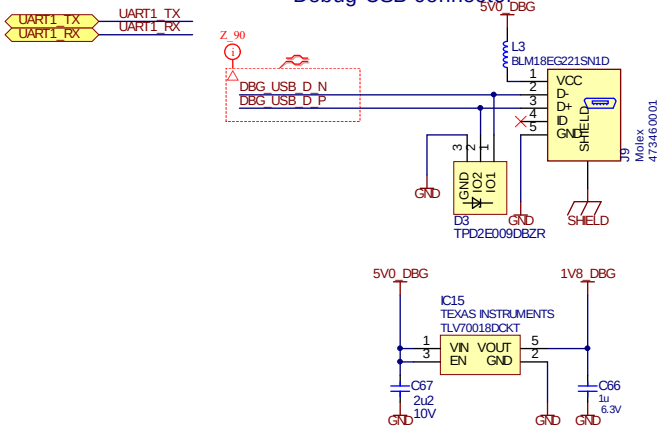
USB Load Switch



Debug UART

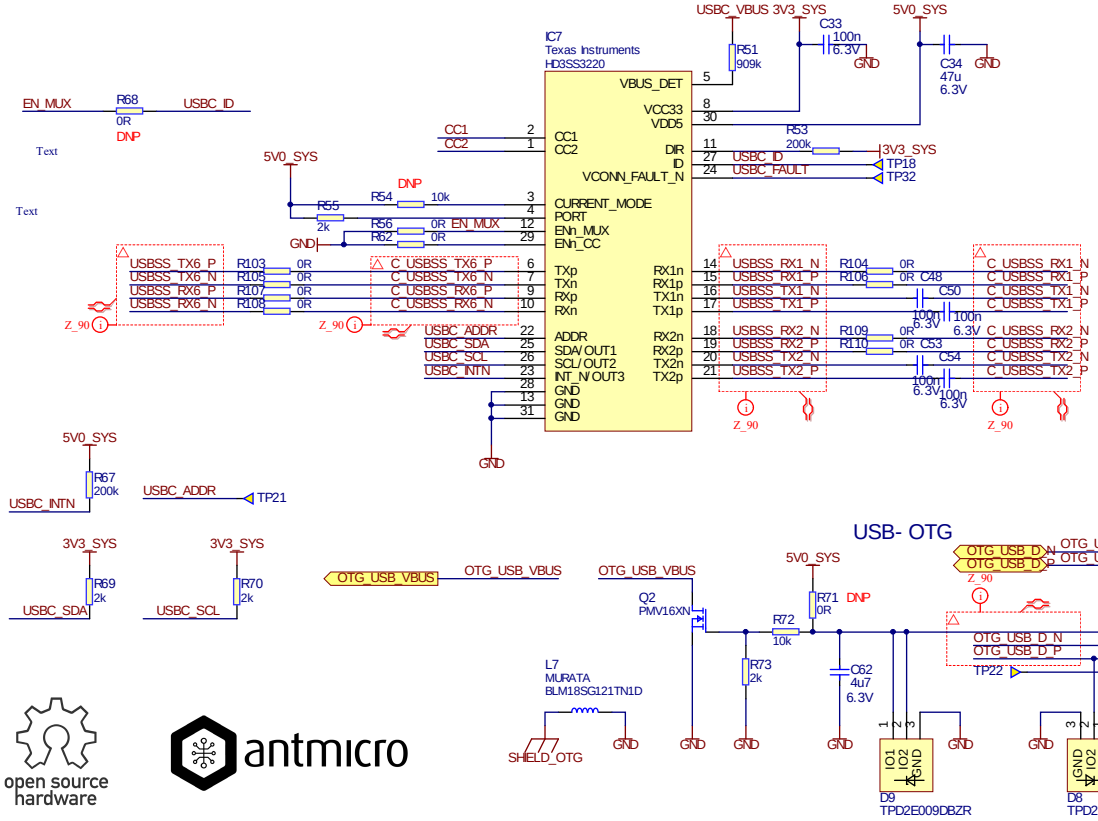


Debug USB connector

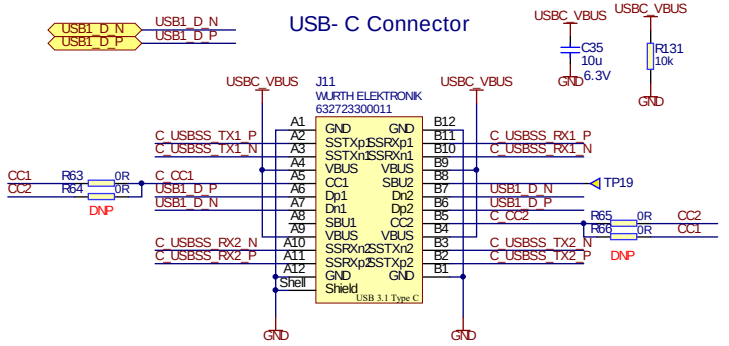


With D17 there's no need to separate 1V8_DBG from 1V8_SYS

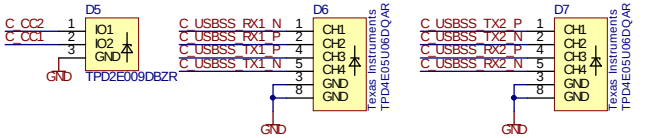
USB- C Multiplexer



USB- C Connector



USB- OTG



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