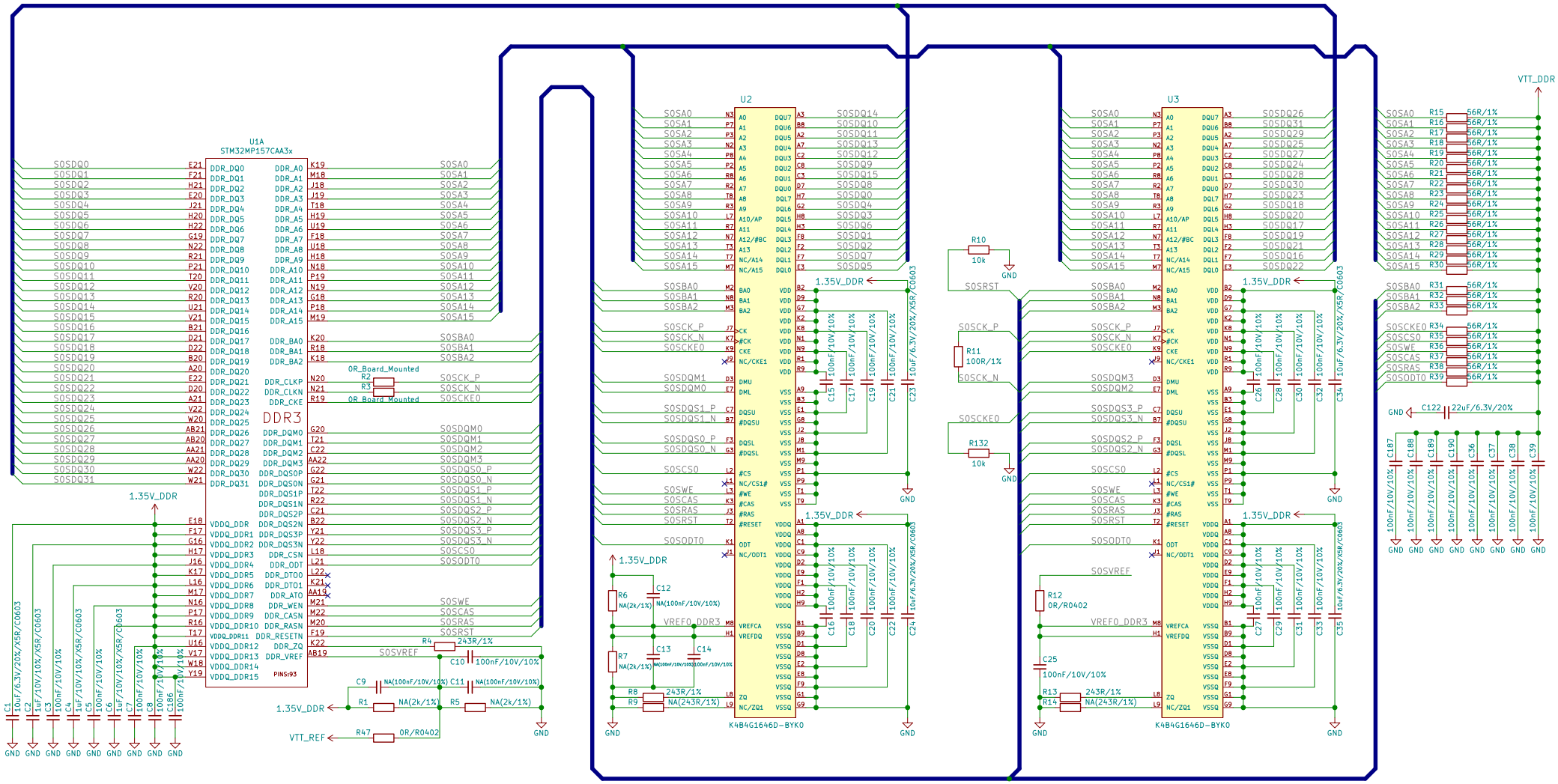
DDR3L:1GByte



Note:

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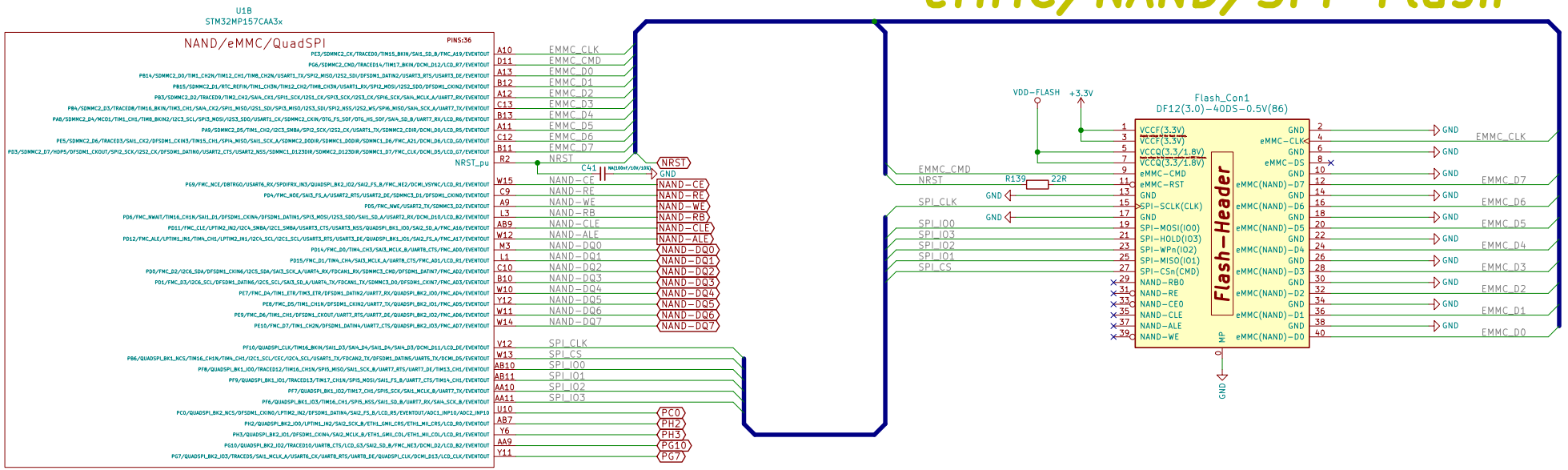
We have used a number of fully compatible, but different DDR3 memories due to supply unavailability.
In such cases the memory part name in the schematic might remain outdated.
It is recommended to always refer to the exact memory name printed on the component itself.

Sheet: /
File: STMP157-OLinuXino-LIME2_Rev_B1.sch

Title: STMP157-OLinuXino-LIME2

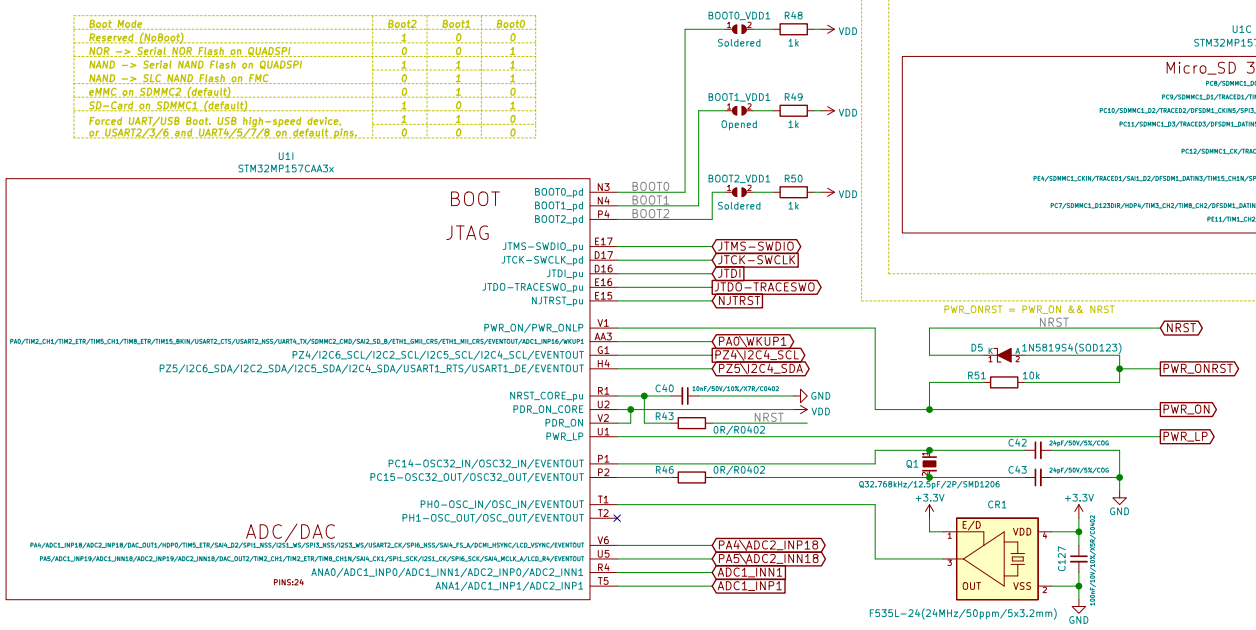
Size: A3	Date: 2021-10-07	Rev: B1
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1		Id: 1/5

eMMC/NAND/SPI-Flash

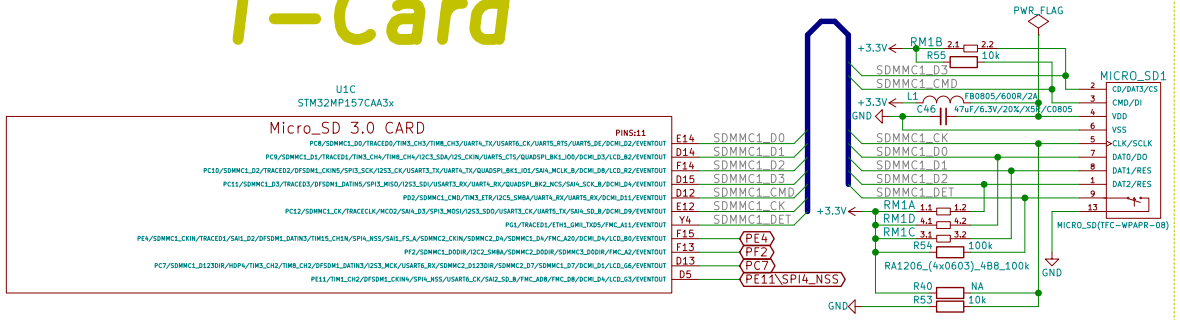


Boot Selection

Boot Mode	Boot2	Boot1	Boot0
Reserved (NoBoot)	1	0	0
NOR -> Serial NOR Flash on QUADSPI	0	0	1
NAND -> Serial NAND Flash on QUADSPI	1	1	1
NAND -> SLC NAND Flash on FMC	0	1	1
eMMC on SDMMC2 (default)	0	1	0
SD-Card on SDMMC1 (default)	1	0	1
Forced UART/USB Boot. USB high-speed device, or USART2/3/6 and UART4/5/7/8 on default pins.	1	1	0
	0	0	0



T-Card



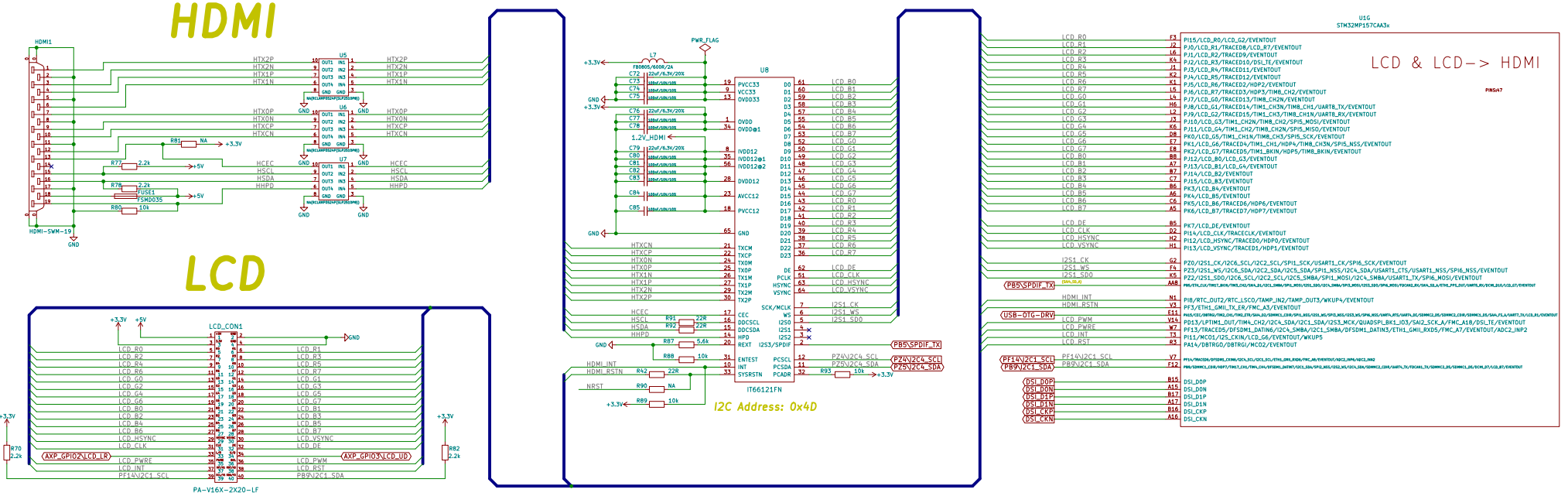
Fiducials

Sheet: /eMMC, SPI-Flash, T-Card and Boot/
File: eMMC, SPI-Flash, T-Card and Boot.sch

Title: STMP157-OLinuXino-LIME2

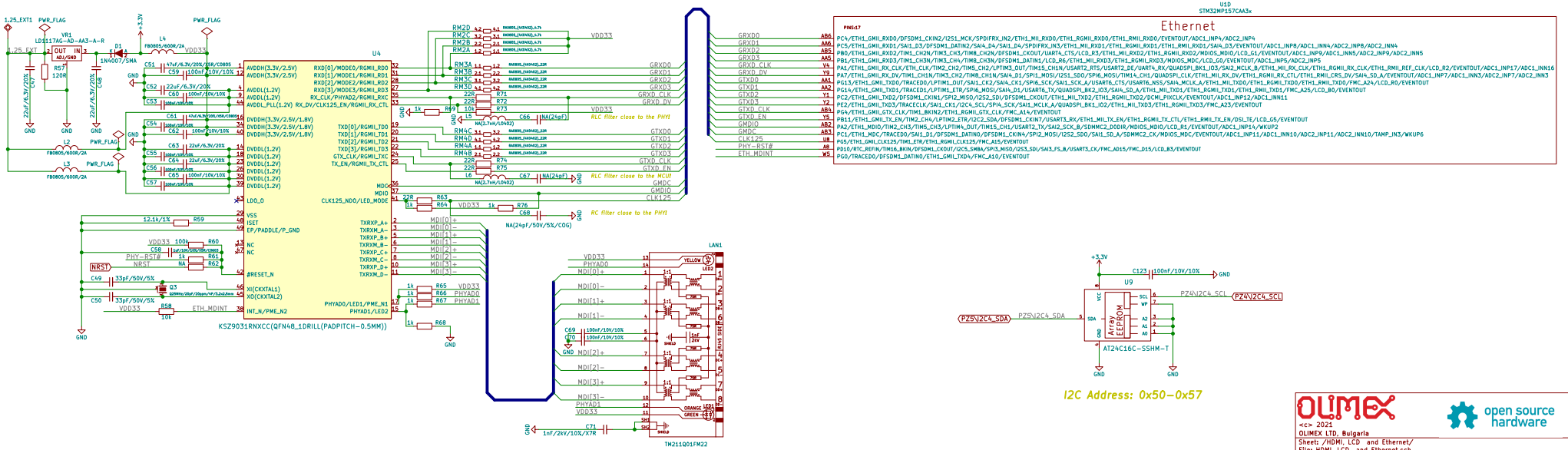
Size: A3	Date: 2021-10-07	Rev: B1
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1		Id: 2/5

HDMI



LCD

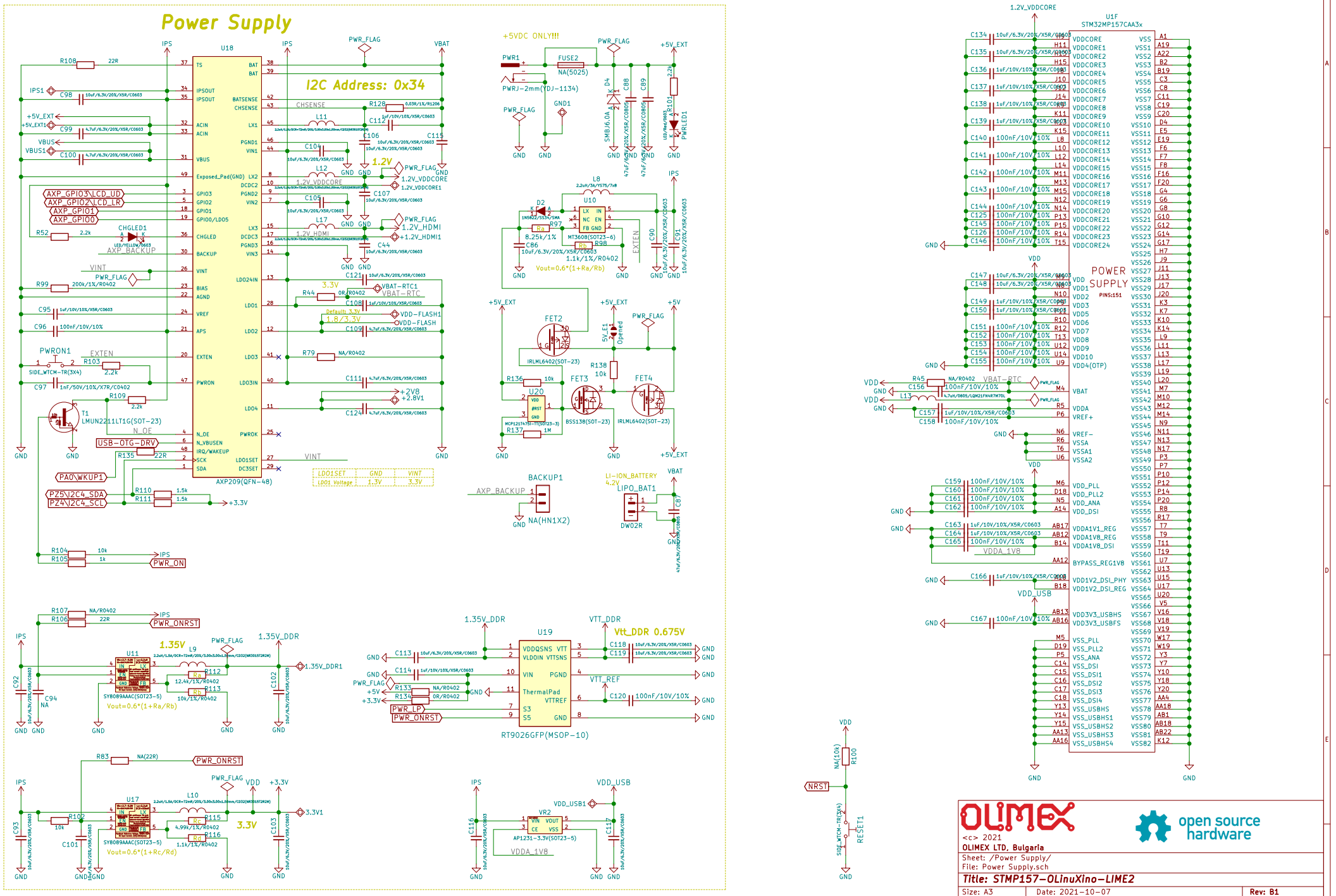
Gigabit Ethernet

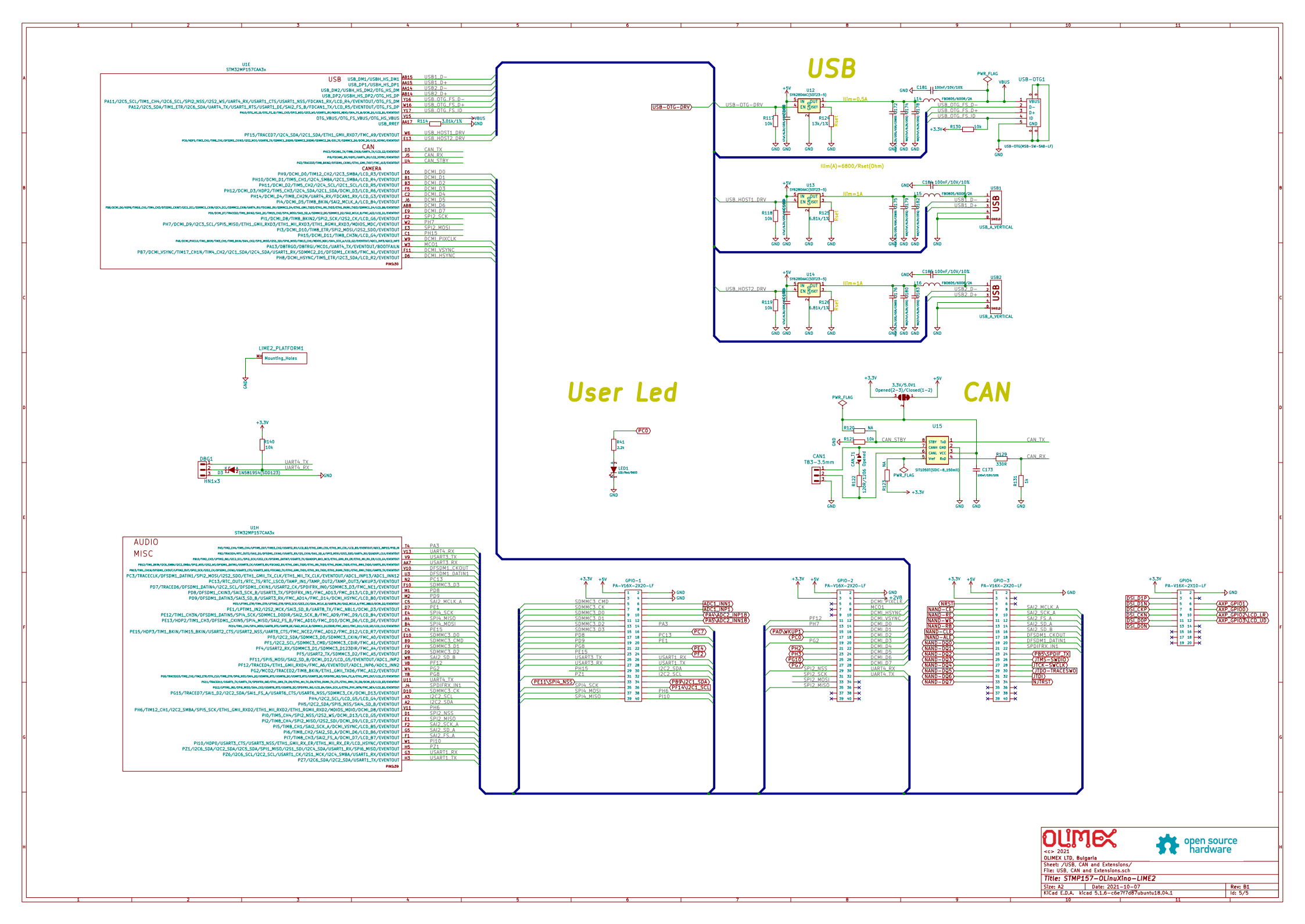


Sheet: /HDMI, LCD and Ethernet/
File: HDMI, LCD and Ethernet.sch

Title: STMP157-OLinuXino-LIME2

Size: A2	Date: 2021-10-07	Rev: B1
KiCad E.D.A. kicad 5.1.6-c6e7f7d~87ubuntu18.04.1		Id: 3/5


Power Supply
I2C Address: 0x34
+5VDC ONLY!!!
U18
AXP209(QFN-48)
U1F
STM32MP157CAA3x
POWER SUPPLY
PINS:151
U19
RT9026GFP(MSOP-10)
U10
U20
U11
U17
VR2
1.2V_VDDCORE
VBAT
VINT
PWR_ONRST
PWR_ON
VDD_USB
VDDA_1V8
Vtt_DDR 0.675V
1.35V_DDR
1.35V_DDR1
Vout=0.6*(1+Ra/Rb)
Vout=0.6*(1+Rc/Rd)
OLIMEX
<c> 2021
OLIMEX LTD, Bulgaria
open source hardware
Sheet: /Power Supply/
File: Power Supply.sch
Title: STMP157-OLinuXino-LIME2
Size: A3
Date: 2021-10-07
Rev: B1
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1
Id: 4/5


USB
User Led
CAN
U1E
STM32MP157CAA3x
USB
CAN
CAMERA
LIME2_PLATFORM1
Mounting_Holes
U1H
STM32MP157CAA3x
AUDIO
MISC
USB-OTG1
USB_A_VERTICAL
GPIO-1
GPIO-2
GPIO-3
GPIO4
PA-V16X-2X20-LF
PA-V16X-2X10-LF
OLIMEX LTD, Bulgaria
Title: STMP157-OLinuXino-LIME2
Size: A2
Date: 2021-10-07
Rev: B1
KiCad E.D.A. kicad 5.1.6-c6e77d7~87ubuntu18.04.1
Id: 5/5