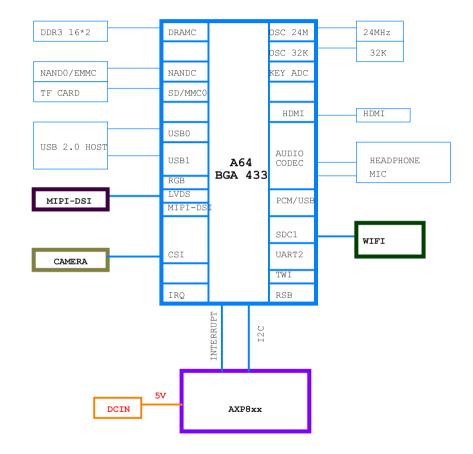
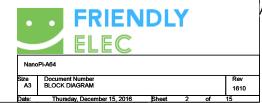
Revision

1610 , First Release

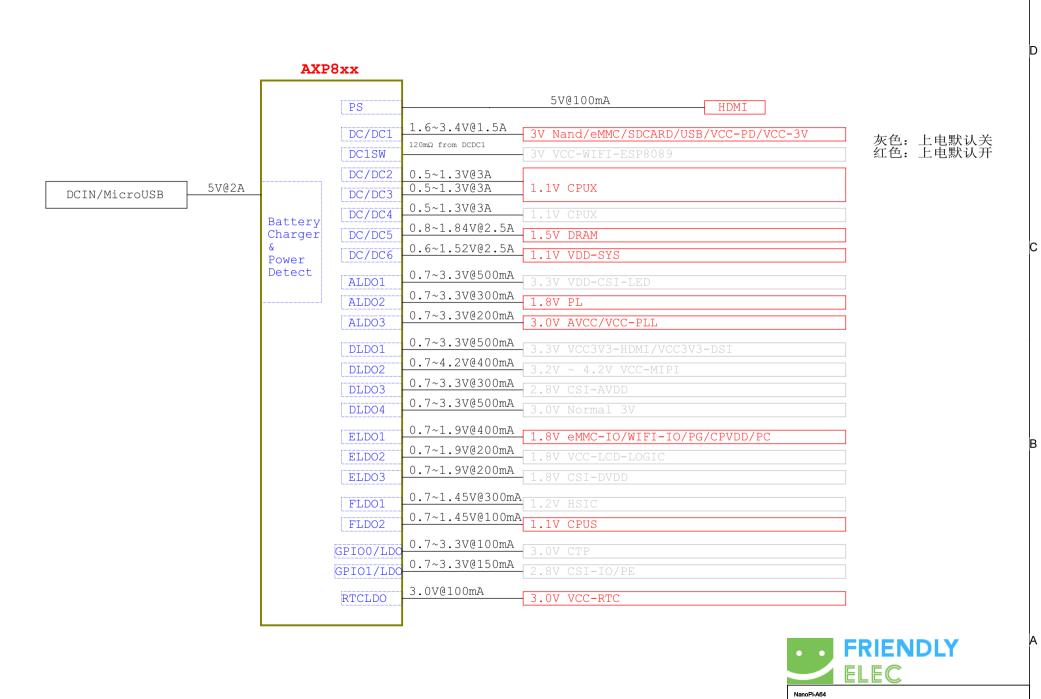


BLOCK DIAGRAM



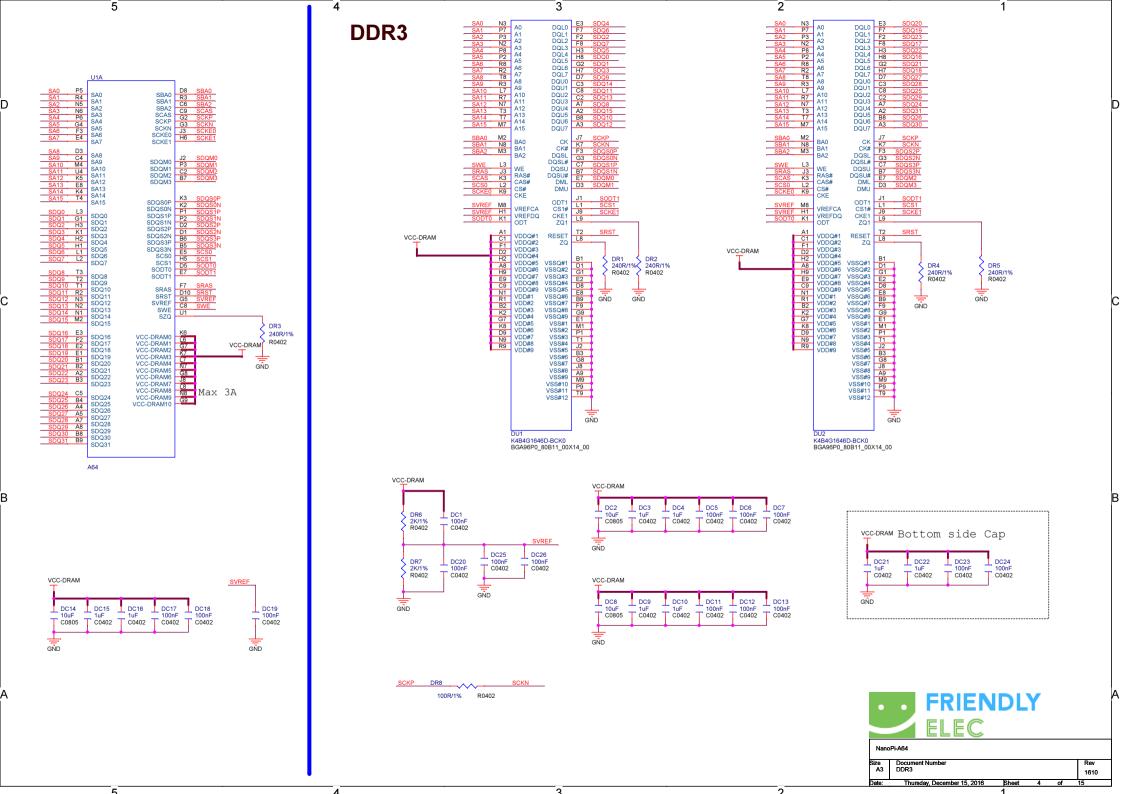


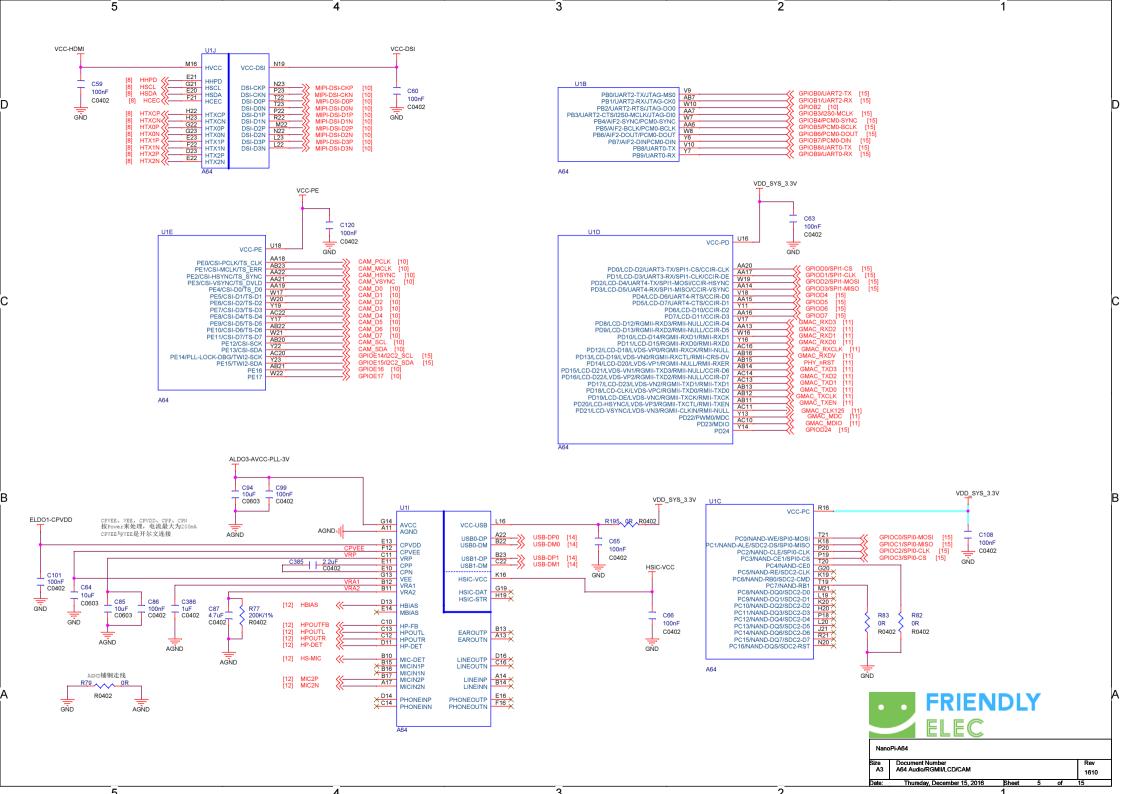
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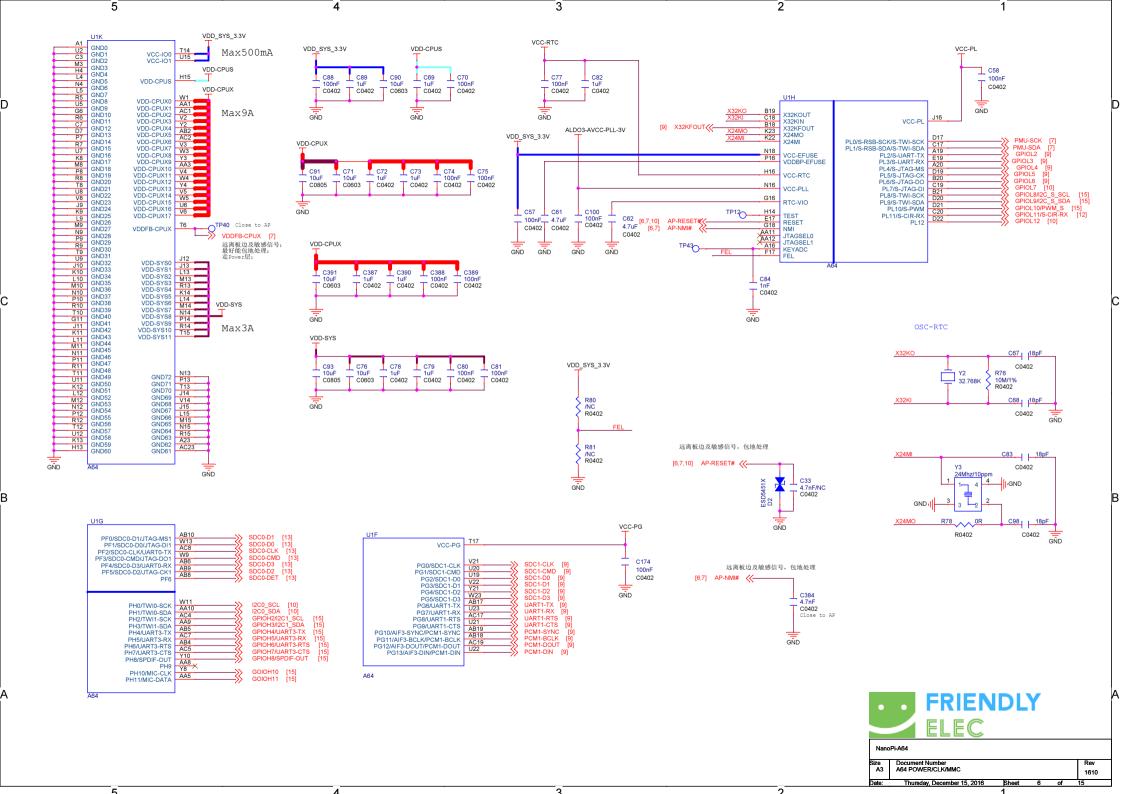


Document Number POWER TREE

1610





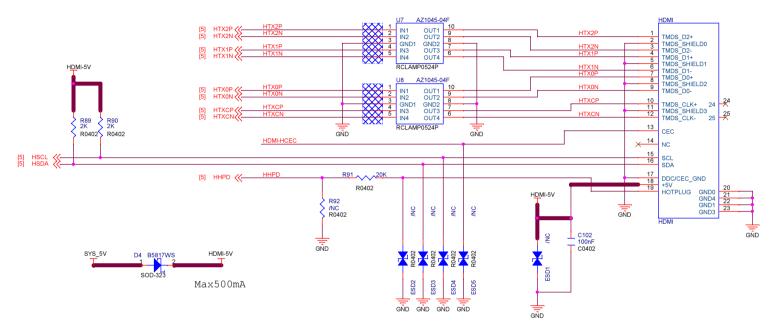


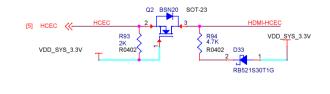
5 **POWER PMIC** VDD_5V DCDC1 C1 10uF C0805 57 ACIN1 L1 DFE252010P DCDC1 DCDC6 VDD-SYS ALDO3-AVCC-PLL-3V C2 10uF C0603 ALDO3 SYS_5V 10uF C0603 C0805 VBUS SWOUT C7 10uF C0805 VIN: C3 | |-FLDO2 VDD-CPUS DCDC1 VDD_SYS_3.3V GND C0805 LX2_ LX2_2 GND DCDC2-3 VDD-CPUX ELDO1 ELDO1-CPVDD DCDC × 52 N_BATDRV BATSENSE VIN2 DCDC2-3 VIN2 VCC-PE ALDO1 DCDC5 VCC-DRAM C11 L3 L4D18 LX3_ 10uF C0805 VDD_5V LOADSENSE R9 0R 10uFC0805 ->> VDDFB-CPUX_{SY}S€57 VCC-PL ALDO2 DCDC3 GND T C15 10uF C0805 VIN3 R0805 HSIC-VCC FLD01 LX4 SYS_5V LX_CHG DCDC4 SYS_5V C17 10uF C0603 C18 10uF C0603 GND VIN4 GND VCC-HDMI DLDO1 ਚੌ L6 DFE252010P × 53 CHGLED LX5 DFE252010P-1R0M VCC-DSI DC5SET: Floating: 1.2V GND: 1.5V VINT: 1.35V C19 DP DCDC5 C20 10uF C0603 C0603 VIN 60 PWRON R10 OR R0402 O DC5SET IGND C21 100nF C0402 GND × 51 N_VBUSEN VCC-PG DLDO4 L7 DFE252010P DCDC6 47 48 SCK SDA [6] PMU-SCK R12 10K [6] PMU-SDA LX6 DFE252010P-1R0M=P2 DCDC6 C0603 [6] AP-NMI# < [6,10] AP-RESET# < IRQ VDD_WiFi-IO C22 10uF C0603 PWROK VIN6 VCC-RTC C24 | 10uF C0603 VCC_RTC DEDO1 | 10uF C0603 C25 | 10uF C0603 GND ALDOIN DLDOIN 150mil 100mil 50mil 30mil ALDO1 C40 4.7uF C0603 DLDO1 C34 4.7uF C0603 ALDO1 DLDO2 C35 4.7uF C0603 ALDO2 DLDO3 C32 4.7uF C0603 DLDO4 ALDO3 4 C42 4.7uF C0603 Max: 100mA X 35 GPIO0/LDO SYS_5V C37 | 10uF C0603 Max 150mA GPIO1/LDO GND ELDOIN C38 4.7uF C0603 VDD_5V ELDO1 C39 1uF C0603 Max 300mA ELDO2 MicroUSB C41 1uF C0603 GND VREF Max 200mA 1 VBUS 6 6 G2 ELDO3 D-D+ ID GND 8 C92 C43 | 10uF C0603 | FLDO1 10uF GND1 GND2 GND3 GND4 FLDOIN C46 4.7uF C0603 MicroUSB _© FLDO1 C45 4.7uF C0603 FLDO2 GND5 GND GND AXP8xx GND **FRIENDLY** ELEC NanoPi-A64 Rev Size A3 Document Number POWER 1610 5

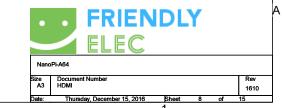
Differential pairs Z0= 100 ohm

3

2

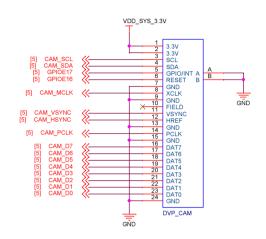




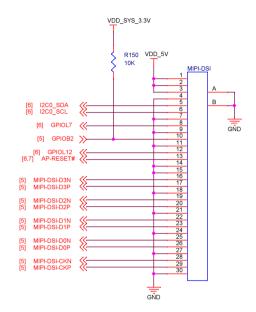


Video Interface

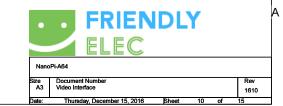
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Camera Interface

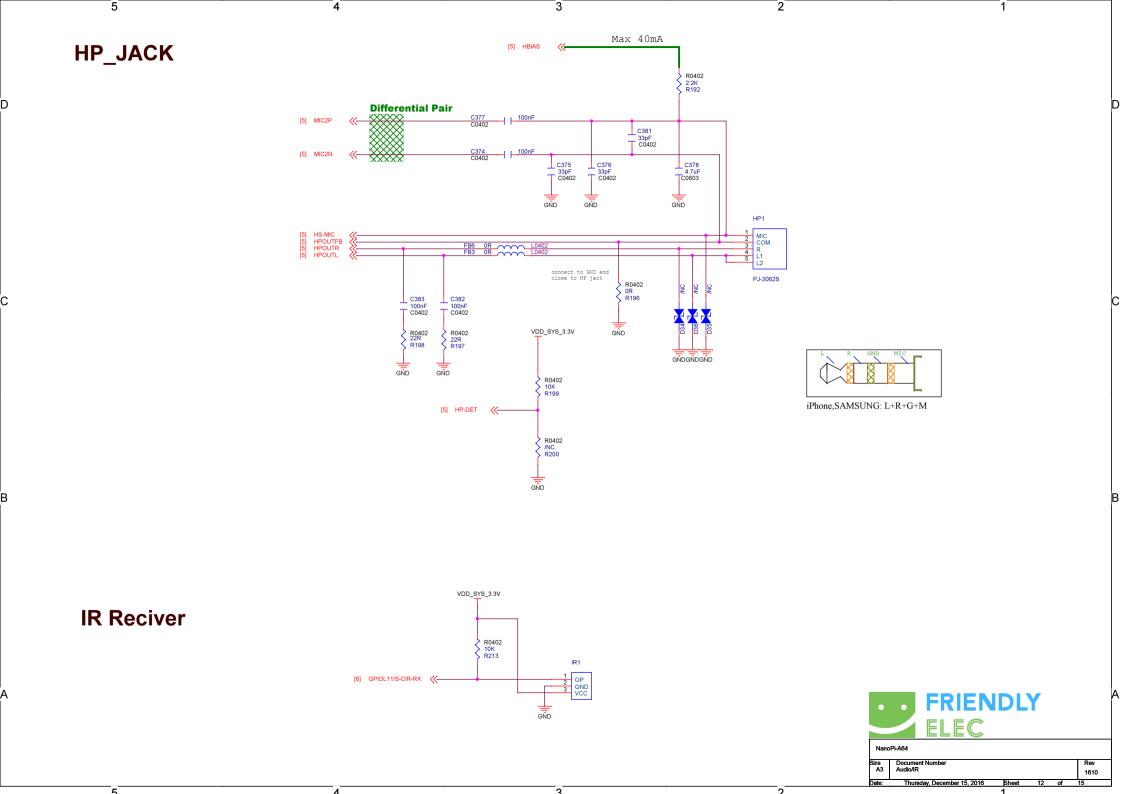


Display Interface



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•



MicroSD/USB

5

