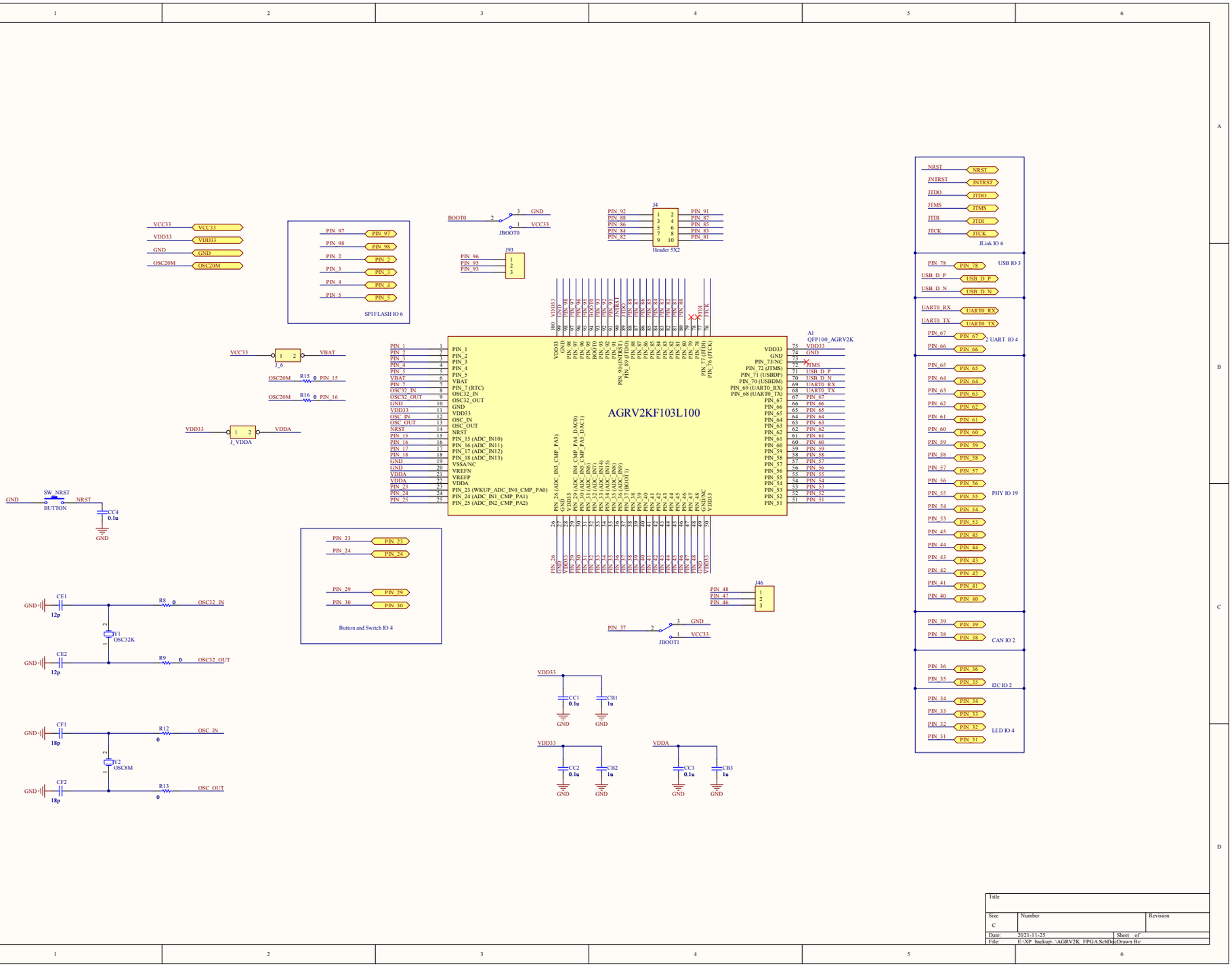
AGRV2KF103L100
A1
QFP100_AGRV2K
J4
Header 5X2
J93
J46
JBOOT0
JBOOT1
BOOT0
SW_NRST
BUTTON
J_6
J_VDDA
SP1FLASH IO 6
Button and Switch IO 4
JLink IO 6
USB IO 3
2 UART IO 4
PHY IO 19
CAN IO 2
I2C IO 2
LED IO 4
Y1
OSC32K
Y2
OSC8M
Title
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Number
Revision
Date: 2021-11-25
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File: E:\XP_backup\...\AGRV2K_FPGA.SchDoc
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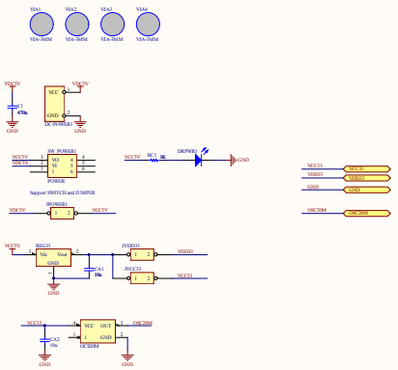


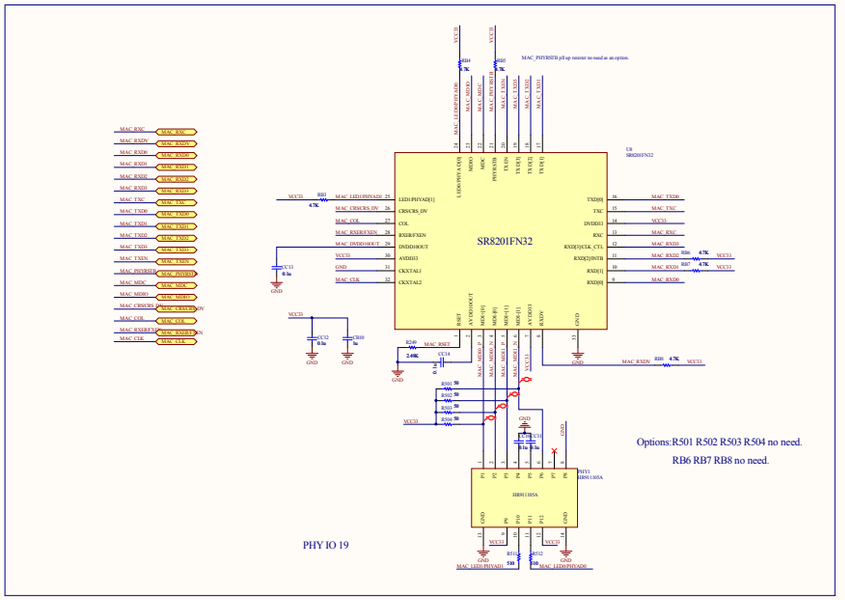
MAC_PHYRSTB pll up resister no need as an option.
SR8201FN32
MAC_RXC
MAC_RXDV
MAC_RXD0
MAC_RXD1
MAC_RXD2
MAC_RXD3
MAC_TXC
MAC_TXD0
MAC_TXD1
MAC_TXD2
MAC_TXD3
MAC_TXEN
MAC_PHYRSTB
MAC_MDC
MAC_MDIO
MAC_CRSCRS_DV
MAC_COL
MAC_RXER
MAC_CLK
MAC_TXD0
MAC_TXD1
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MAC_TXD3
MAC_TXC
MAC_RXDV
MAC_RXD0
MAC_RXD1
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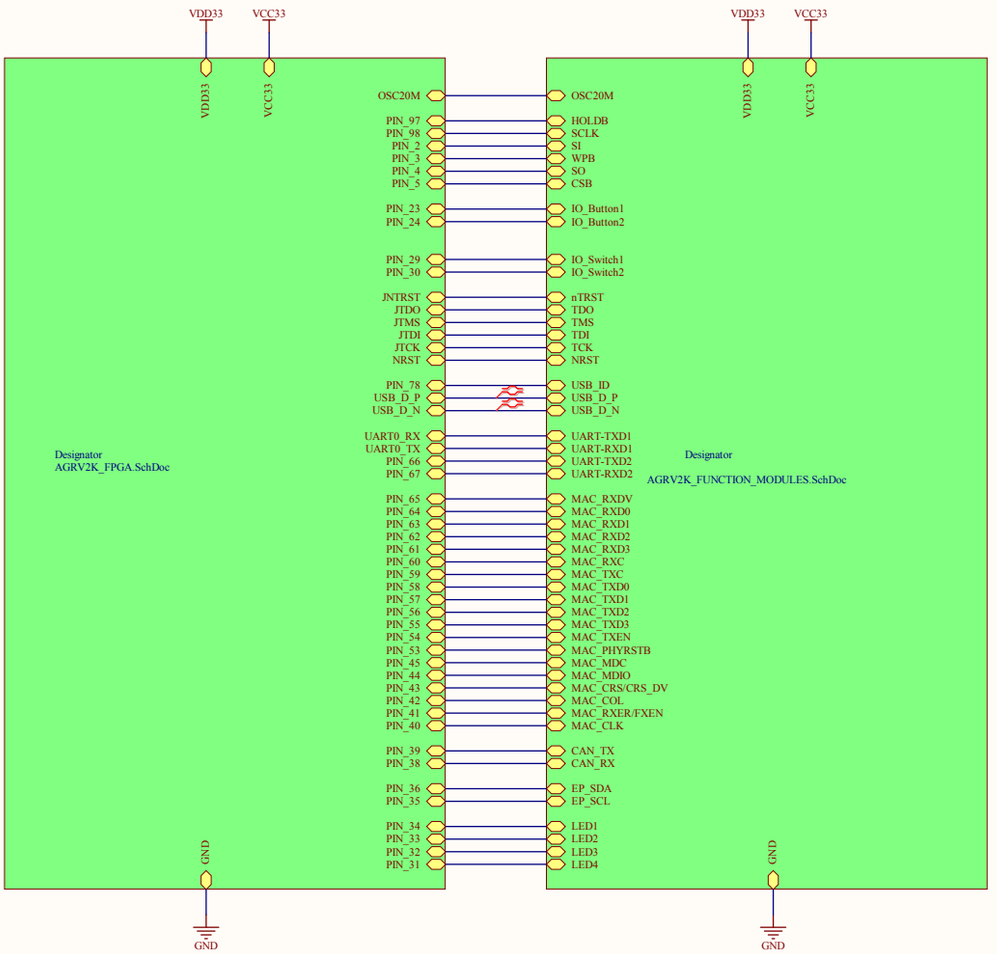
MAC_RXD3
MAC_R

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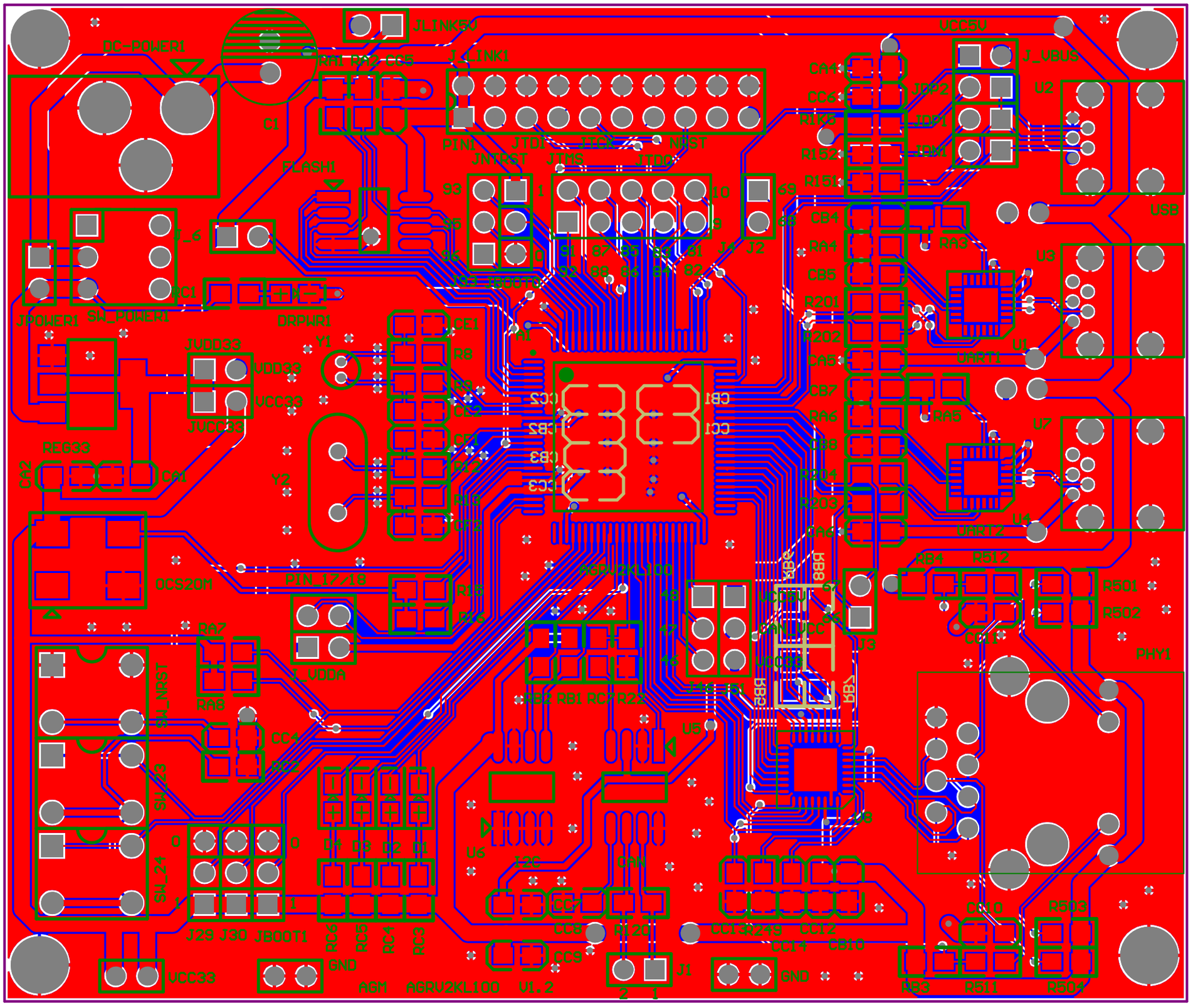
DC-POWER1
JLINK5V
JLINK1
RA1 RA2 CC6
C1
PIN1
JTDI
JTMS
JTDO
NRST
JNTRST
FLASH1
J_6
SW_POWER1
JPOWER1
DRPWR1
JVDD33
VDD33
VCC33
JVCC33
REG33
Y1
Y2
OCS20M
PIN 17/18
J_VDDA
RA7
RA8
CC4
J_NRST
SWD
GL24
J29 J30 JBOOT1
GND
VCC33
AGM AGRV2KL100 V1.2
VCC5V
J_VBUS
JVBUS2
JVBUS1
JBAT1
USB
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| Comment | Description | Designator | Footprint | LibRef | Quantity |
|---|---|---|---|---|---|
| QFP100_AGRV2K | | A1 | | QFP100_AGRV2K | 1 |
| 470u | | C1 | ECAP300 | CAP | 1 |
| 10u | | CA1, CA2, CA4, CA5, CA6 | 0805C | CAP, CAP0603 | 5 |
| 1u | | CB1, CB2, CB3, CB4, CB7, CB10 | 0805C | CAP | 6 |
| 4.7u | | CB5, CB8 | 0805C | CAP | 2 |
| 0.1u | Generic Capacitor | CC1, CC2, CC3, CC4, CC5, CC6, CC7, CC8, CC9, CC10, CC11, CC12, CC13, CC14 | 0805C | CAP, CAP0603, CAPACITOR | 14 |
| 15p | | CE1, CE2 | 0805C | CAP | 2 |
| 18p | | CF1, CF2 | 0805C | CAP | 2 |
| LED0805 | | D1, D2, D3, D4, DRPWR1 | LED0805 | LED0805 | 5 |
| DC_POW | | DC-POWER1 | PC2 | DC_POW | 1 |
| FLASH_SOP8 | | FLASH1 | SOP8 | FLASH_SOP8 | 1 |
| JUMPER | | J1, J2, J3, J_6, J_VBUS, J_VDDA, JDN1, JDP1, JDP2, JLINK5V, JPOWER1, JVCC33, JVDD33 | DCOM2 | JUMPER | 13 |
| Header 5X2 | Header, 5-Pin, Dual row | J4 | HDR2X5 | Header 5X2 | 1 |
| SW_SPDT | | J29, J30, JBOOT0, JBOOT1 | DCOM3 | SW_SPDT | 4 |
| Header 3 | Header, 3-Pin | J46, J51, J93 | HDR1X3 | Header 3 | 3 |
| J_LINK | | J_LINK1 | | J_LINK | 1 |
| OSC20M | | OCS20M | Cristal7050 | YYJZ | 1 |
| HR911105A | | PHY1 | HR911105A | HR911105A | 1 |
| 1.5K | | R1K5 | 0805 | RES | 1 |
| 0 | | R8, R9, R12, R13, R15, R16, RA7, RA8 | 0805 | RES | 8 |
| 2K | | R22 | 0805 | RES | 1 |
| 120 | | R120 | 0805 | RES | 1 |
| 15K | | R151, R152 | 0805 | RES | 2 |
| 20 | | R201, R202, R203, R204 | 0805 | RES | 4 |
| 2.49K | | R249 | 0805 | RES | 1 |
| 50 | | R501, R502, R503, R504 | 0805 | RES | 4 |
| 510 | | R511, R512 | 0805 | RES | 2 |
| 10K | | RA1, RA2, RA4, RA5, RA6 | 0805 | RES | 5 |
| 4.7K | Generic Resistor | RA3, RB1, RB2, RB3, RB4, RB5, RB6, RB7, RB8 | 0805 | RES, RESISTOR | 9 |
| 1K | | RC1, RC2, RC3, RC4, RC5, RC6, RC7 | 0805 | RES | 7 |
| 1117-3.3 | | REG33 | SOT-223 | REGULATOR | 1 |
| BUTTON | | SW_23, SW_24, SW_NRST | SW_PB | SW_PB | 3 |
| POWER | | SW_POWER1 | SW_23 | POWER | 1 |
| CP2104 | | U1, U4 | QFN24 | CP2104 | 2 |
| ZX62D_AB_5PB | | U2, U3, U7 | ZX62D | ZX62D_AB_5PB | 3 |
| TJA1050T | | U5 | SOP8 | TJA1050T | 1 |
| 24LC02B-I/ SN | | U6 | SOP8 | 24LC02B-I/ SN | 1 |
| SR8201FN32 | | U8 | | SR8201FN32 | 1 |
| VIA-3MM | | VIA1, VIA2, VIA3, VIA4 | VIA-3MM | VIA-3MM | 4 |
| OSC32K | Crystal Oscillator | Y1 | XTAL07 | XTAL | 1 |
| OSC8M | Crystal Oscillator | Y2 | XTAL488 | XTAL | 1 |