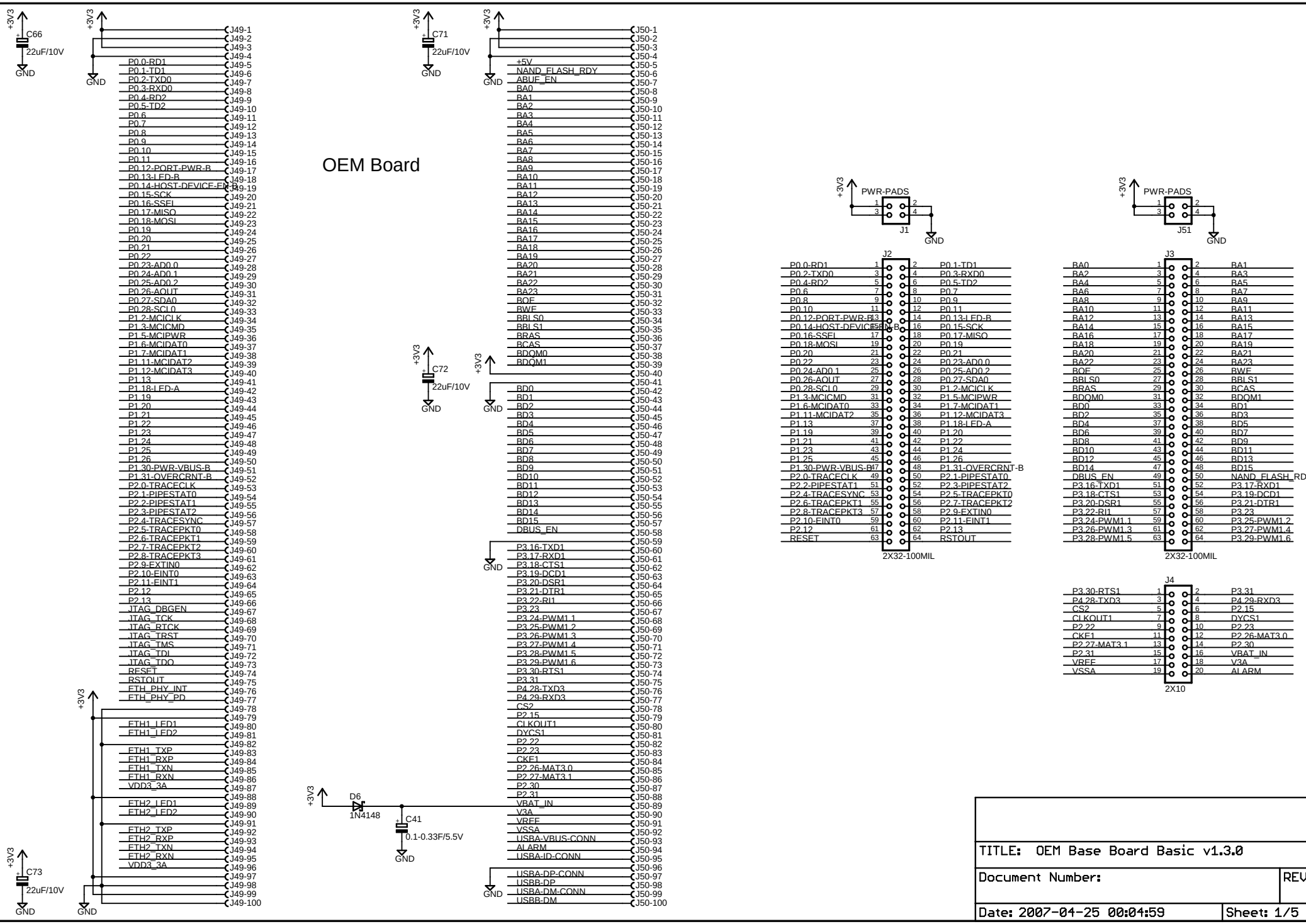
OEM Board
C66
22uF/10V
C71
22uF/10V
C72
22uF/10V
C73
22uF/10V
C41
0.1-0.33F/5.5V
D6
1N4148
+3V3
GND
J49-1
J49-2
J49-3
J49-4
P0.0-RD1
P0.1-TD1
P0.2-TXD0
P0.3-RXD0
P0.4-RD2
P0.5-TD2
P0.6
P0.7
P0.8
P0.9
P0.10
P0.11
P0.12-PORT-PWR-B
P0.13-LED-B
P0.14-HOST-DEVICE-ENB
P0.15-SCK
P0.16-SSEL
P0.17-MISO
P0.18-MOSI
P0.19
P0.20
P0.21
P0.22
P0.23-AD0.0
P0.24-AD0.1
P0.25-AD0.2
P0.26-AOUT
P0.27-SDA0
P0.28-SCL0
P1.2-MCICLK
P1.3-MCICMD
P1.5-MCIPWR
P1.6-MCIDAT0
P1.7-MCIDAT1
P1.11-MCIDAT2
P1.12-MCIDAT3
P1.13
P1.18-LED-A
P1.19
P1.20
P1.21
P1.22
P1.23
P1.24
P1.25
P1.26
P1.30-PWR-VBUS-B
P1.31-OVERCRNT-B
P2.0-TRACECLK
P2.1-PIPESTAT0
P2.2-PIPESTAT1
P2.3-PIPESTAT2
P2.4-TRACESYNC
P2.5-TRACEPKT0
P2.6-TRACEPKT1
P2.7-TRACEPKT2
P2.8-TRACEPKT3
P2.9-EXTIN0
P2.10-EINT0
P2.11-EINT1
P2.12
P2.13
JTAG_DBGEN
JTAG_TCK
JTAG_RTCK
JTAG_TRST
JTAG_TMS
JTAG_TDI
JTAG_TDO
RESET
RSTOUT
ETH_PHY_INT
ETH_PHY_PD
ETH1_LED1
ETH1_LED2
ETH1_TXP
ETH1_RXP
ETH1_TXN
ETH1_RXN
VDD3_3A
ETH2_LED1
ETH2_LED2
ETH2_TXP
ETH2_RXP
ETH2_TXN
ETH2_RXN
VDD3_3A
J49-100
J50-1
J50-2
J50-3
J50-4
+5V
NAND_FLASH_RDY
ABUF_EN
BA0
BA1
BA2
BA3
BA4
BA5
BA6
BA7
BA8
BA9
BA10
BA11
BA12
BA13
BA14
BA15
BA16
BA17
BA18
BA19
BA20
BA21
BA22
BA23
BOE
BWE
BBLS0
BBLS1
BRAS
BCAS
BDQM0
BDQM1
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
BD8
BD9
BD10
BD11
BD12
BD13
BD14
BD15
DBUS_EN
P3.16-TXD1
P3.17-RXD1
P3.18-CTS1
P3.19-DCD1
P3.20-DSR1
P3.21-DTR1
P3.22-RI1
P3.23
P3.24-PWM1.1
P3.25-PWM1.2
P3.26-PWM1.3
P3.27-PWM1.4
P3.28-PWM1.5
P3.29-PWM1.6
P3.30-RTS1
P3.31
P4.28-TXD3
P4.29-RXD3
CS2
P2.15
CLKOUT1
DYCS1
P2.22
P2.23
CKE1
P2.26-MAT3.0
P2.27-MAT3.1
P2.30
P2.31
VBAT_IN
V3A
VREF
VSSA
USBA-VBUS-CONN
ALARM
USBA-ID-CONN
USBA-DP-CONN
USBB-DP
USBA-DM-CONN
USBB-DM
J50-100
PWR-PADS
J1
J51
J2
J3
J4
2X32-100MIL
2X10
P1.31-OVERCRNT-B
P2.1-PIPESTAT0
P2.3-PIPESTAT2
P2.5-TRACEPKT0
P2.7-TRACEPKT2
P2.9-EXTIN0
P2.11-EINT1
P2.13
RSTOUT
NAND_FLASH_RDY
P3.17-RXD1
P3.19-DCD1
P3.21-DTR1
P3.23
P3.25-PWM1.2
P3.27-PWM1.4
P3.29-PWM1.6
P3.31
P4.29-RXD3
P2.15
DYCS1
P2.23
P2.26-MAT3.0
P2.30
VBAT_IN
V3A
ALARM
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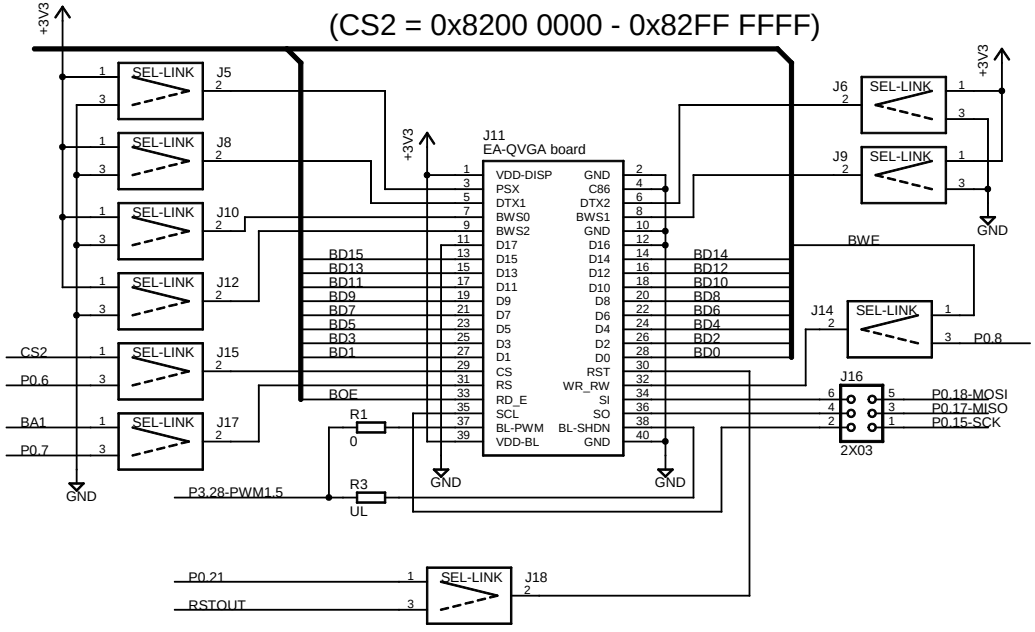
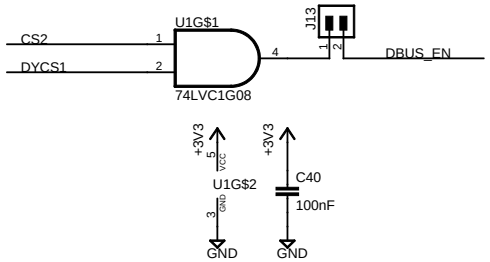
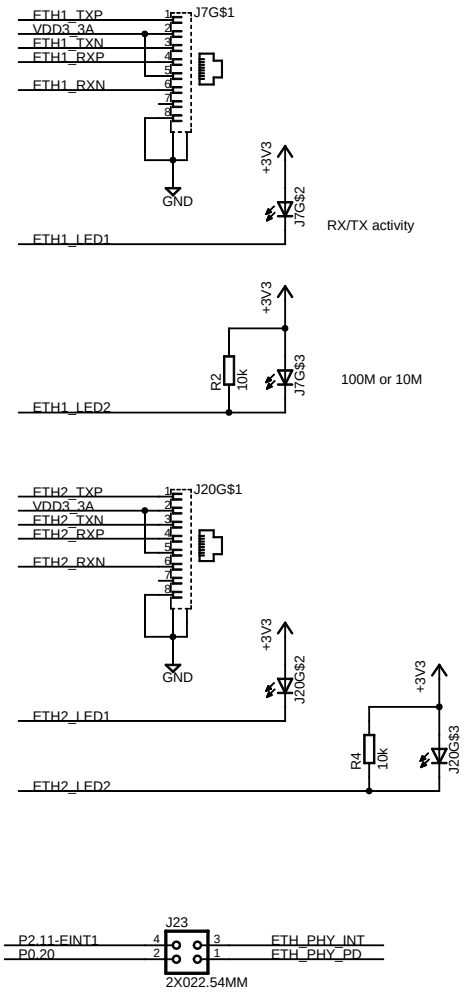
Connector for color QVGA LCD
(CS2 = 0x8200 0000 - 0x82FF FFFF)

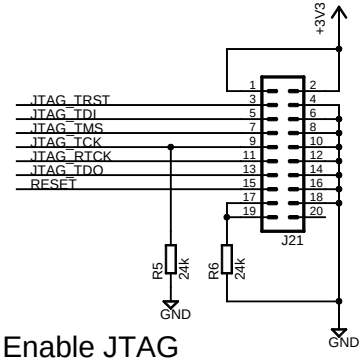




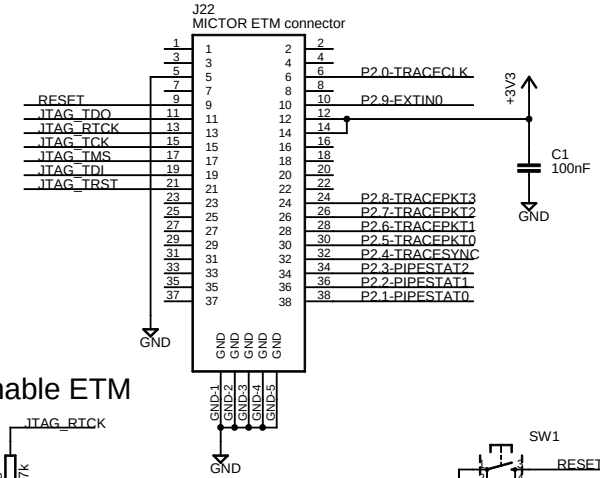
RJ45 Ethernet connector



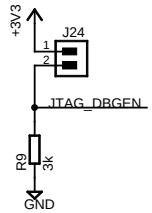
JTAG interface



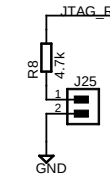
ETM

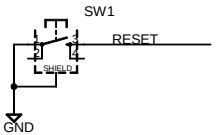


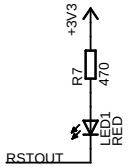
Enable JTAG



Enable ETM







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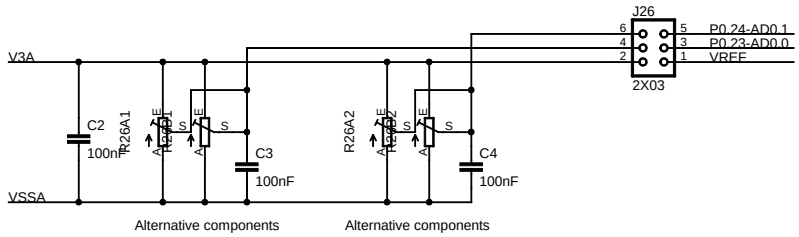
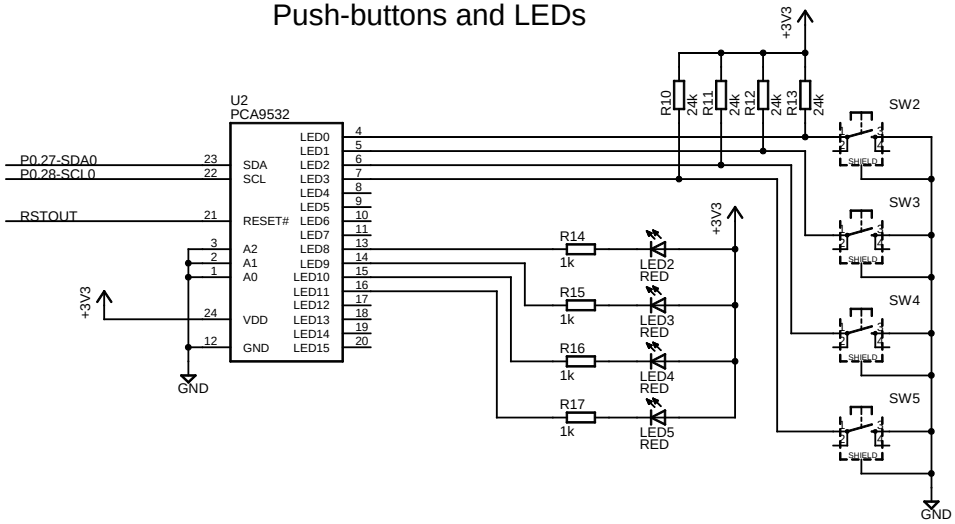
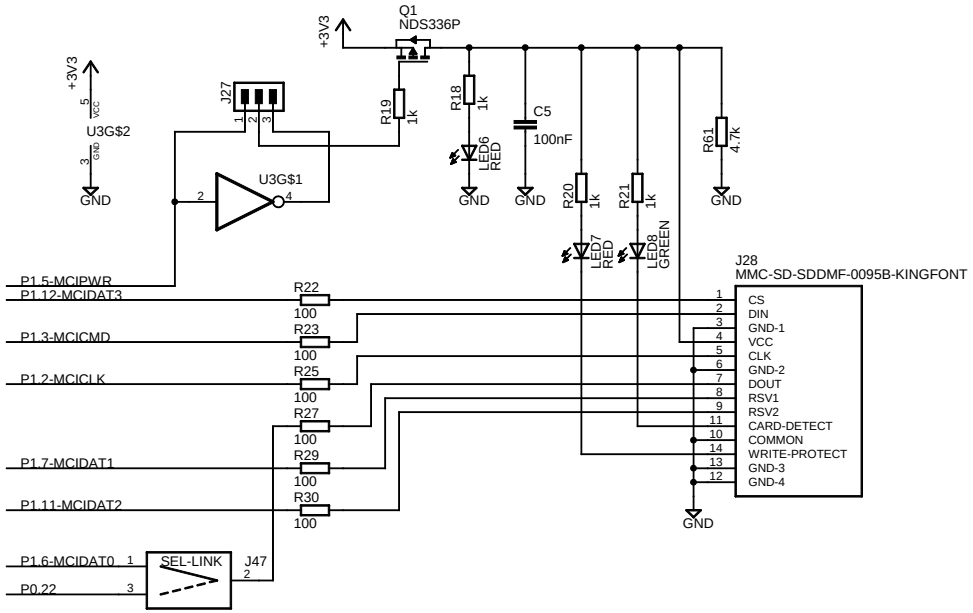
Analog inputs



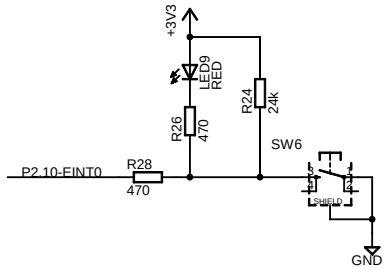
Push-buttons and LEDs



MMC/SD Memory Card I/F



Interrupt (P2.10) key



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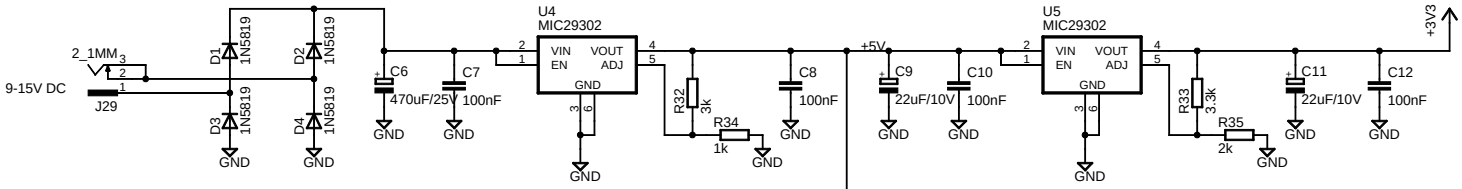
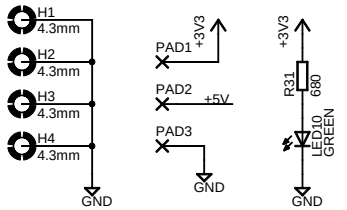
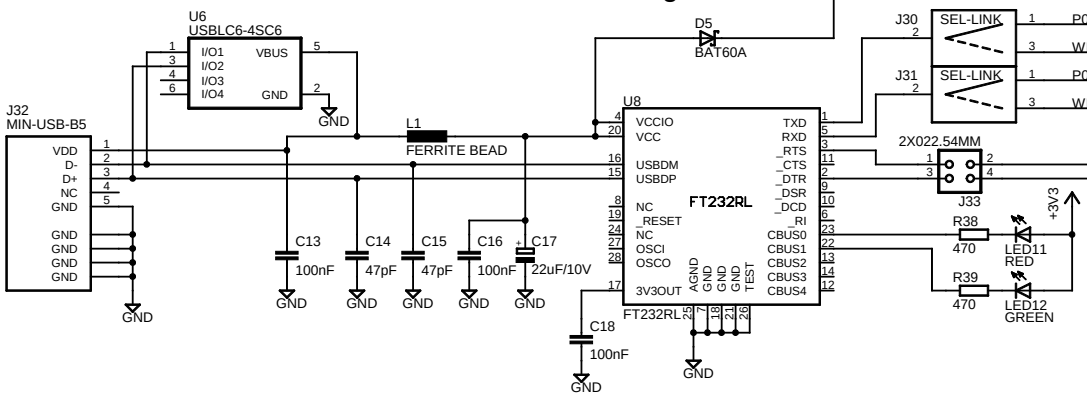
Power Supply

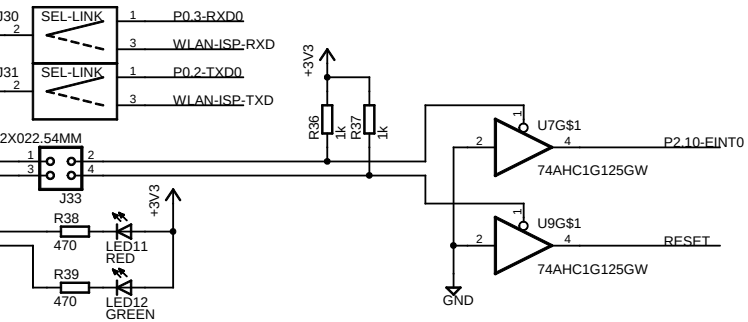


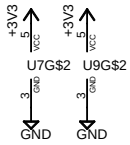


UART #0 over USB Serial Bridge

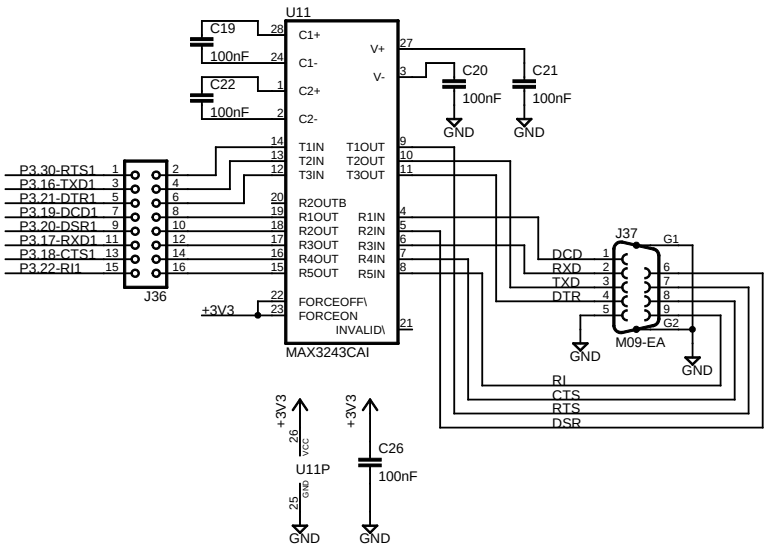


ISP functionality

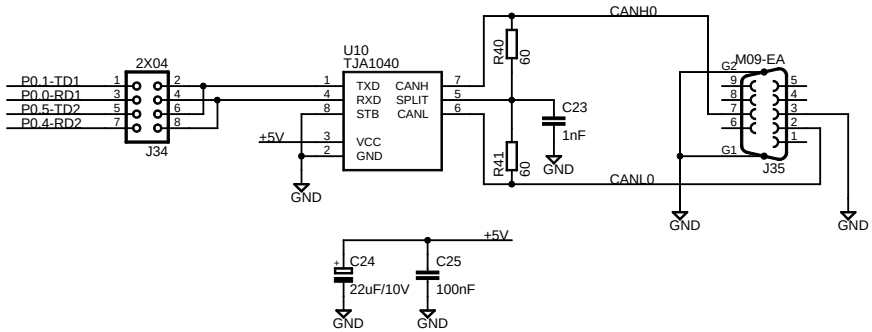




UART #1 RS232 full modem



CAN transceiver



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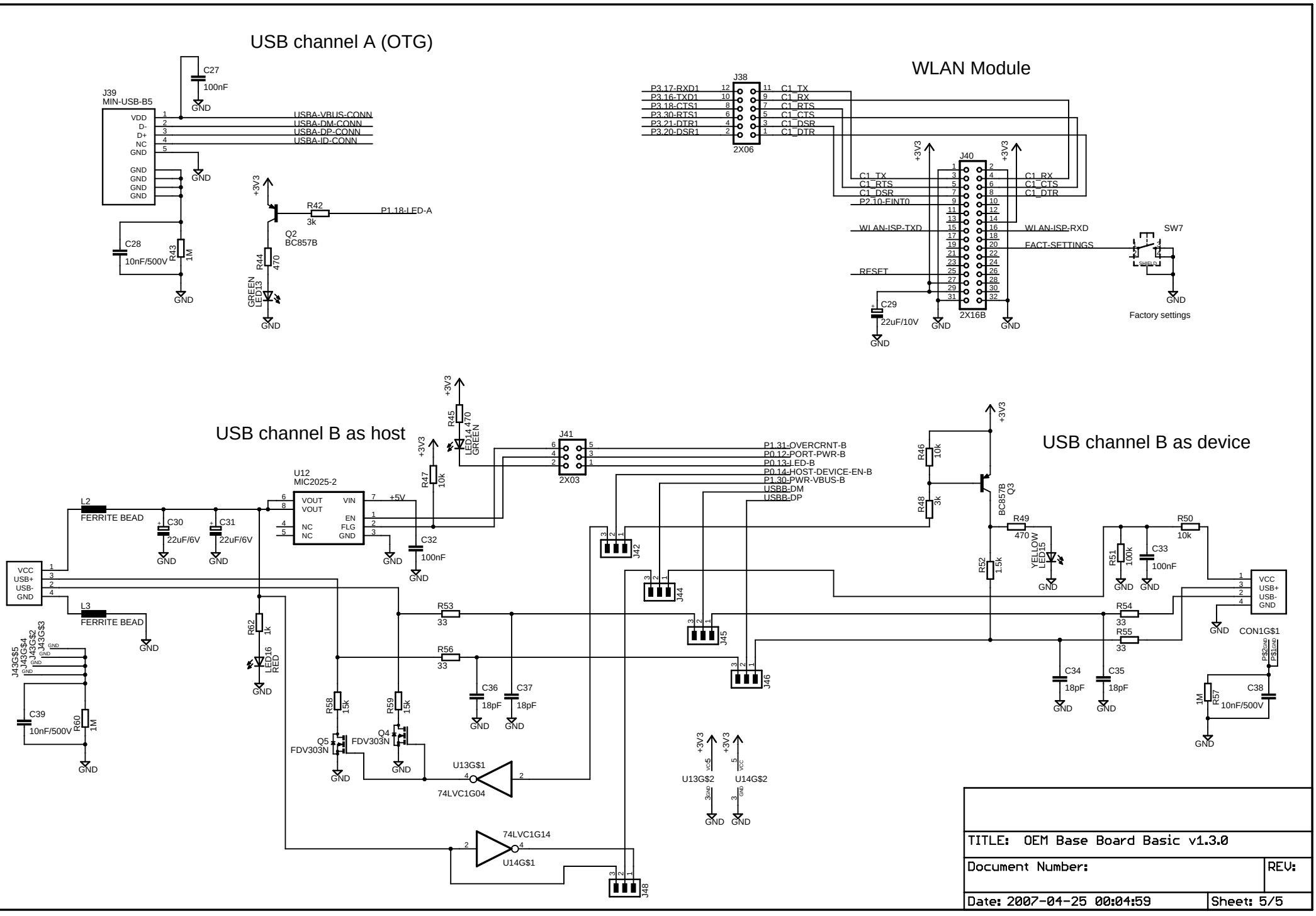
USB channel A (OTG)
WLAN Module
USB channel B as host
USB channel B as device
J39
MIN-USB-B5
C27
100nF
USBA-VBUS-CONN
USBA-DM-CONN
USBA-DP-CONN
USBA-ID-CONN
C28
10nF/500V
R43
1M
R42
3k
P1.18-LED-A
Q2
BC857B
R44
470
GREEN
LED13
J38
2X06
P3.17-RXD1
P3.16-TXD1
P3.18-CTS1
P3.30-RTS1
P3.21-DTR1
P3.20-DSR1
C1_TX
C1_RX
C1_RTS
C1_CTS
C1_DSR
C1_DTR
J40
2X16B
P2.10-EINT0
WLAN-ISP-TXD
WLAN-ISP-RXD
FACT-SETTINGS
RESET
SW7
Factory settings
C29
22uF/10V
U12
MIC2025-2
VOUT
VIN
EN
FLG
NC
GND
+5V
L2
FERRITE BEAD
L3
FERRITE BEAD
C30
22uF/6V
C31
22uF/6V
C32
100nF
R45
470
LED14
GREEN
R47
10k
J41
2X03
P1.31-OVERCRNT-B
P0.12-PORT-PWR-B
P0.13-LED-B
P0.14-HOST-DEVICE-EN-B
P1.30-PWR-VBUS-B
USBB-DM
USBB-DP
R46
10k
R48
3k
Q3
BC857B
R49
470
YELLOW
LED15
R50
10k
R51
100k
C33
100nF
R52
1.5k
R53
33
R54
33
R55
33
R56
33
R62
1k
LED16
RED
R58
15k
R59
15k
Q5
FDV303N
Q4
FDV303N
C36
18pF
C37
18pF
C34
18pF
C35
18pF
C38
10nF/500V
R57
1M
R60
1M
C39
10nF/500V
J42
J44
J45
J46
J48
U13G$1
74LVC1G04
74LVC1G14
U14G$1
U13G$2
U14G$2
CON1G$1
VCC
USB+
USB-
GND
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