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Design Overview

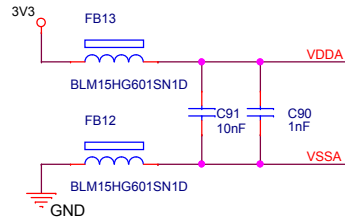
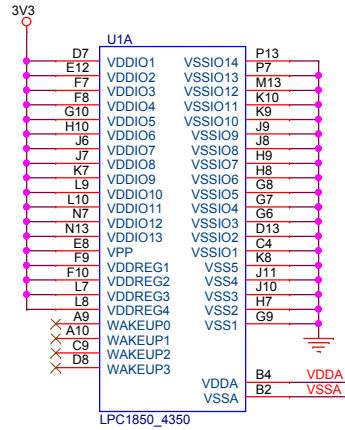
TBD

Disclaimer:

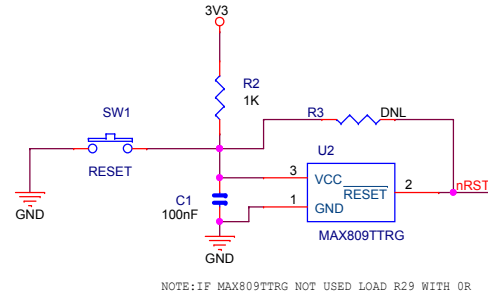
Schematic's are for reference only.
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Size	Document Number	Rev	
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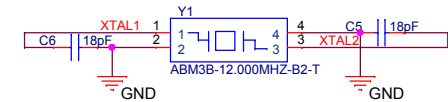
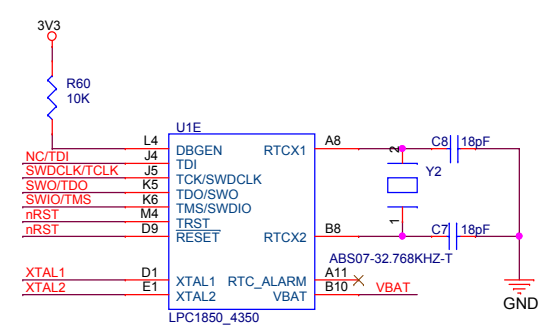
LPC4350 POWER



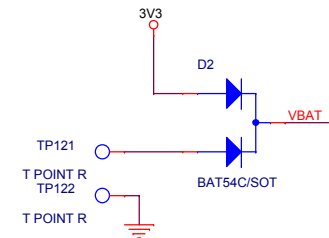
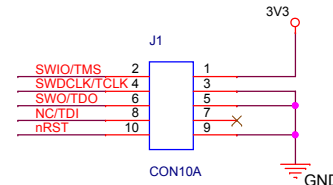
RESET SWITCH



LPC4350 CRYSTAL, JTAG, RTC

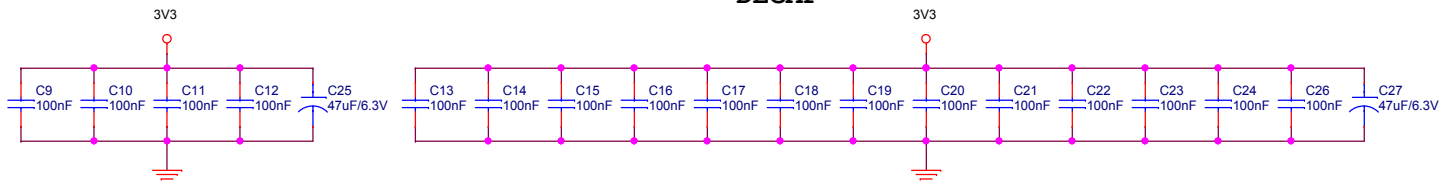


JTAG



NOTE: Place DECAP close to processor 3V3 pins.

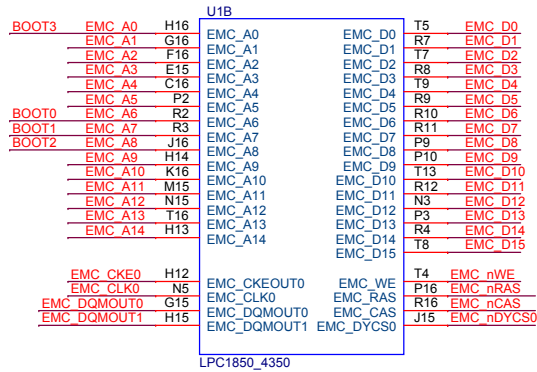
DECAP



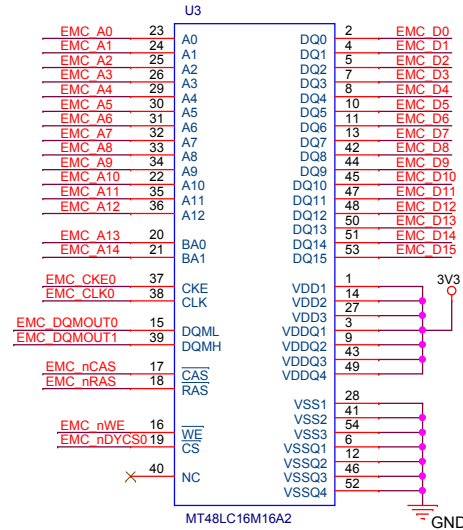
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MEMORY

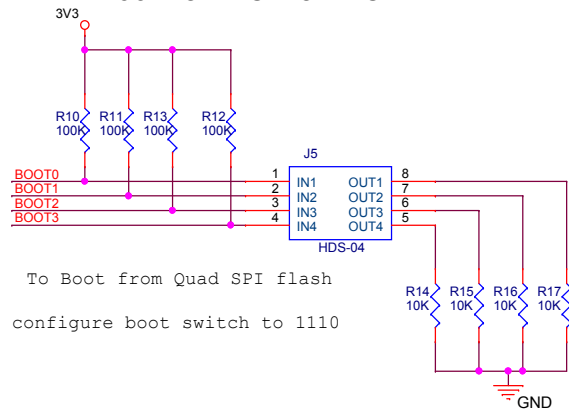
LPC4350 RAM



SDRAM

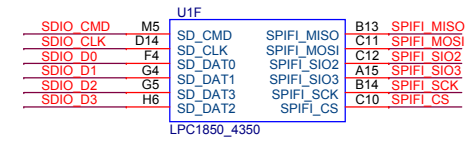


BOOT SELECT SWITCH

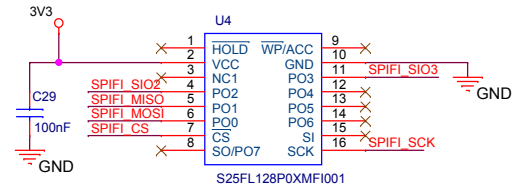
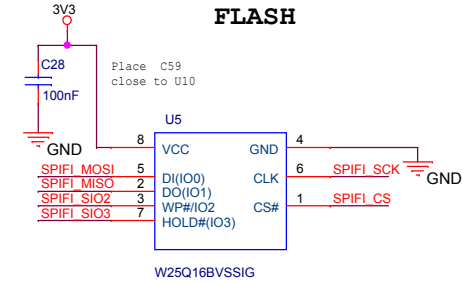


NOTE: Place DECAP close to SRAM 3V3 pins.

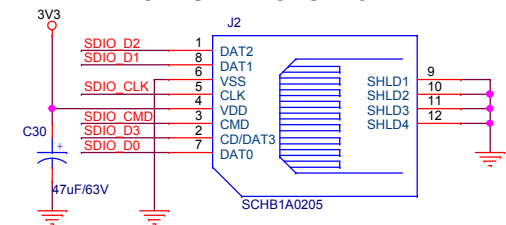
LPC4350 FLASH



FLASH



SD CARD SECTION



FB5

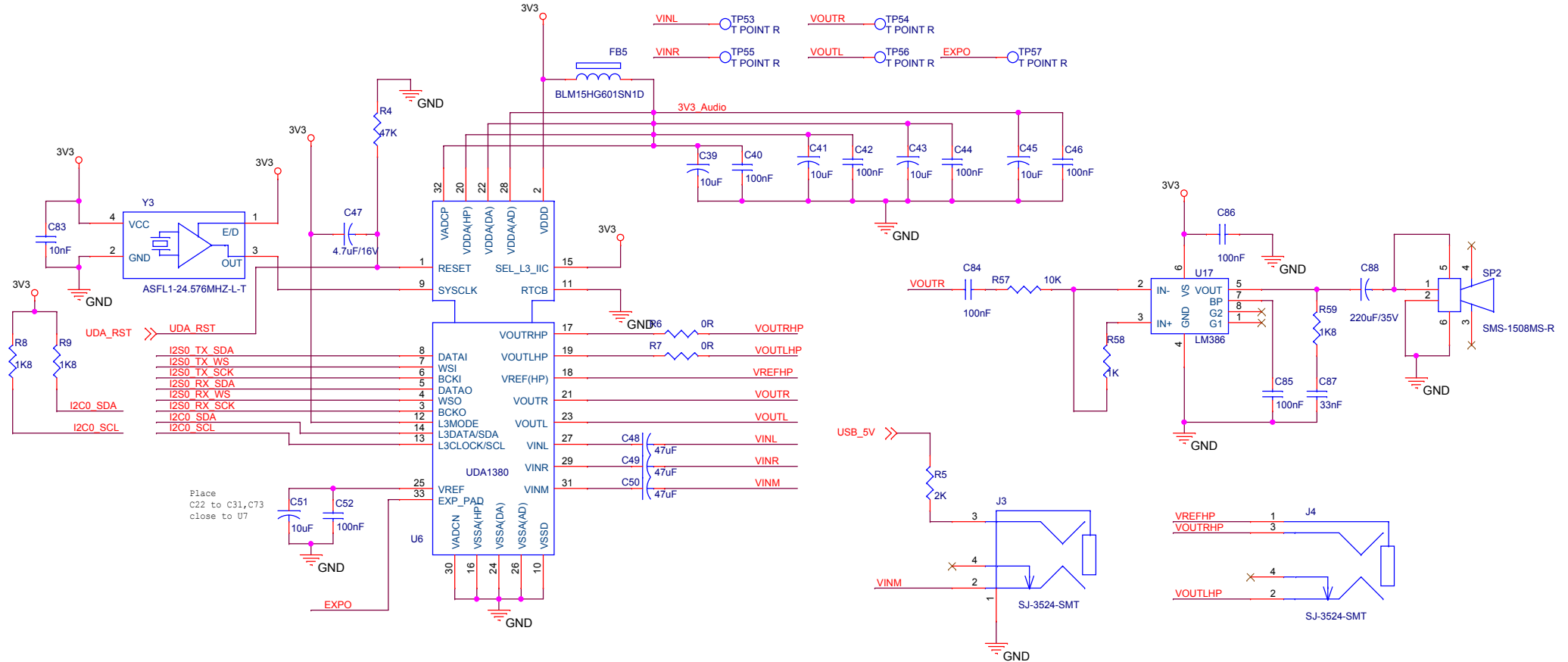
VINL TP53 T POINT R

VINR TP55 T POINT R

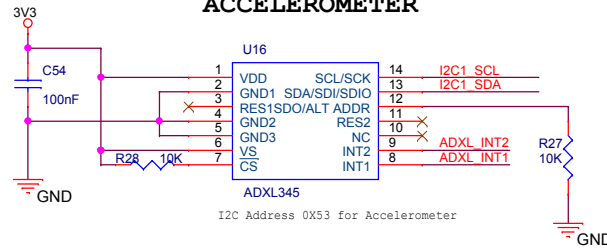
VOUTR TP54 T POINT R

VOUTL TP56 T POINT R

EXPO TP57 T POINT R

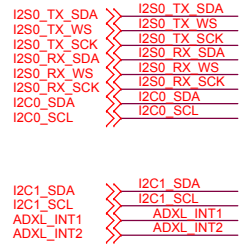


U16

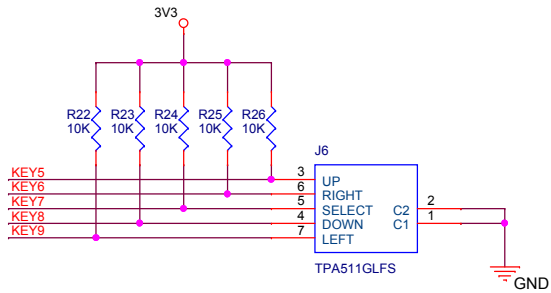


U1D	
I2S0_TX_SDA	L6 I2S0_TX_SDA
I2S0_TX_SCK	M1 I2S0_TX_SCK
I2S0_TX_WS	M1 I2S0_TX_WS
I2S0_RX_SDA	F11 I2S0_RX_SDA
I2S0_RX_SCK	F13 I2S0_RX_SCK
I2S0_RX_WS	G11 I2S0_RX_WS
I2C0_SCL	L15 I2C0_SCL
I2C0_SDA	L16 I2C0_SDA

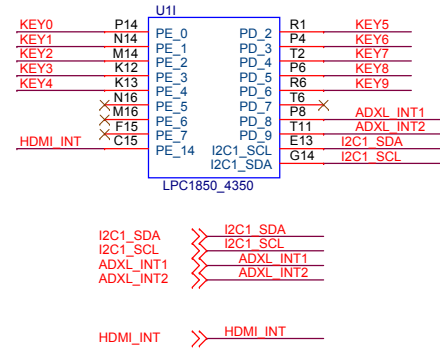
LPC1850_4350



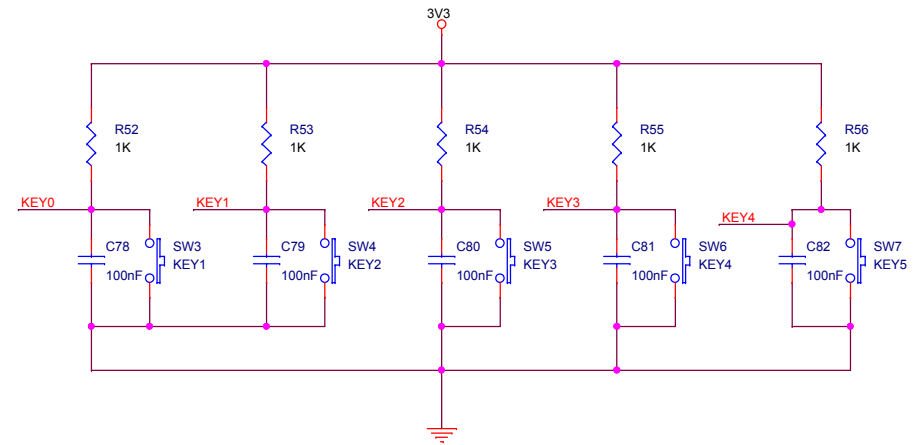
JOYSTICK



LPC4350 GPIO

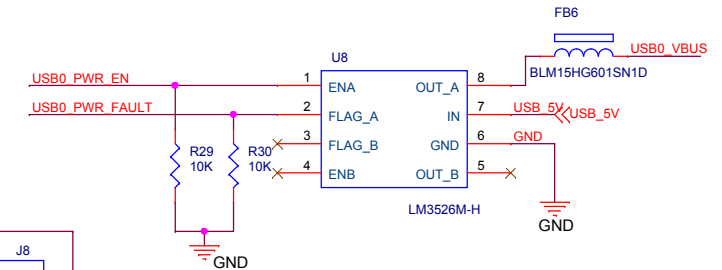
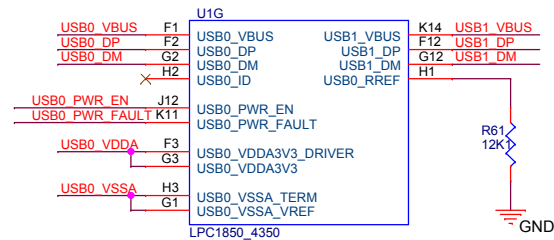
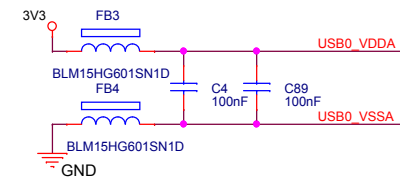


USER KEY

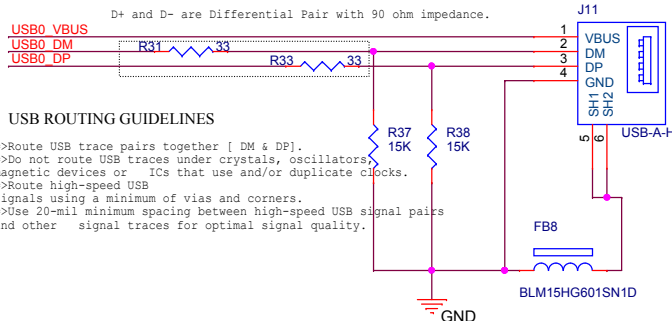


USB SECTION

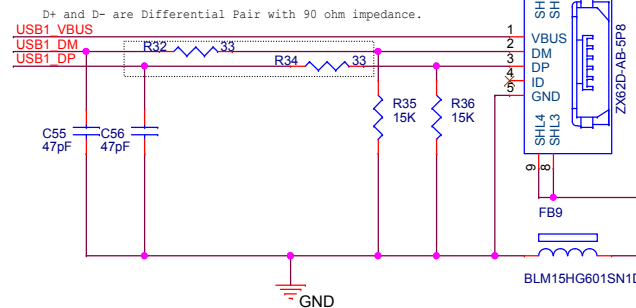
LPC4350 USB



D+ and D- are Differential Pair with 90 ohm impedance.



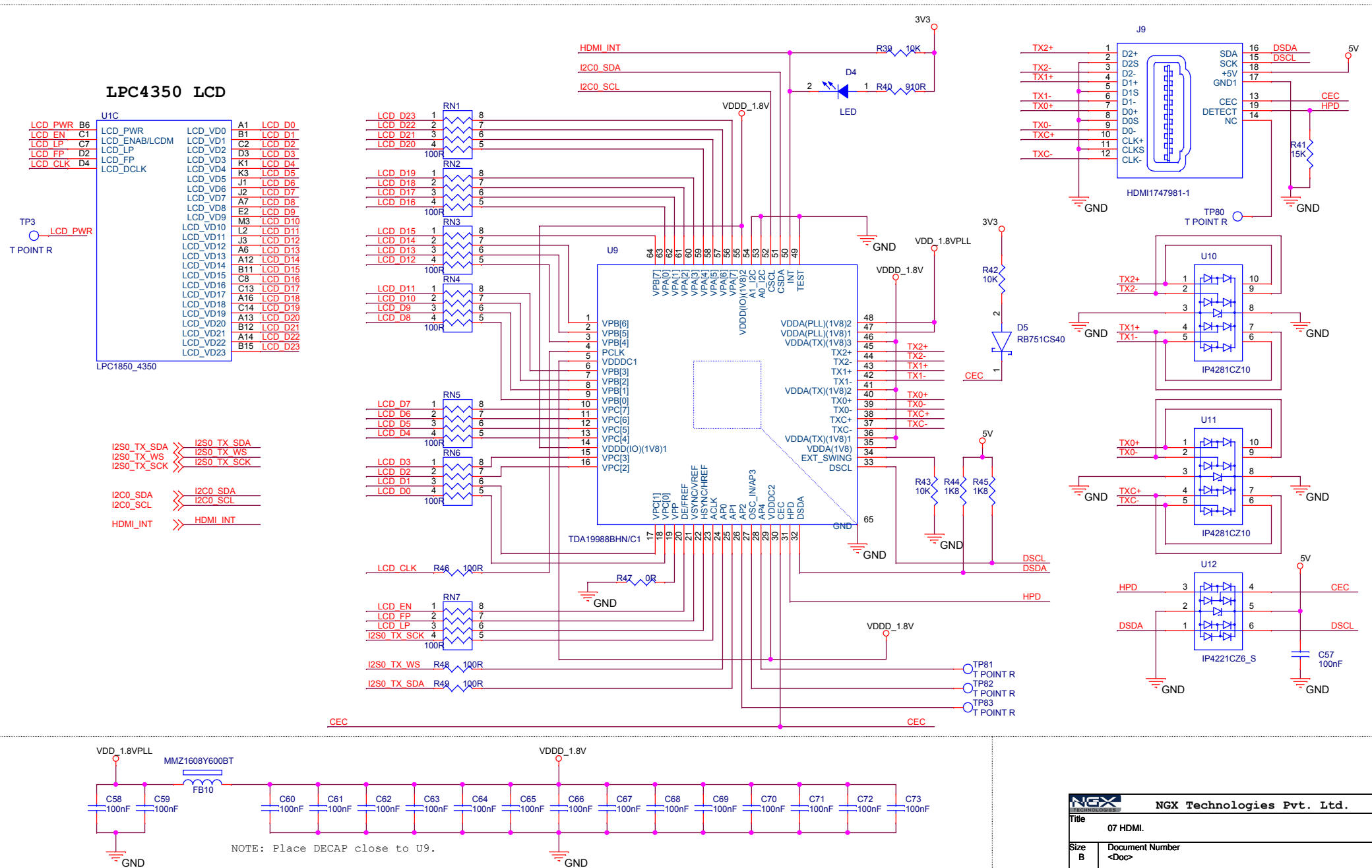
D+ and D- are Differential Pair with 90 ohm impedance.



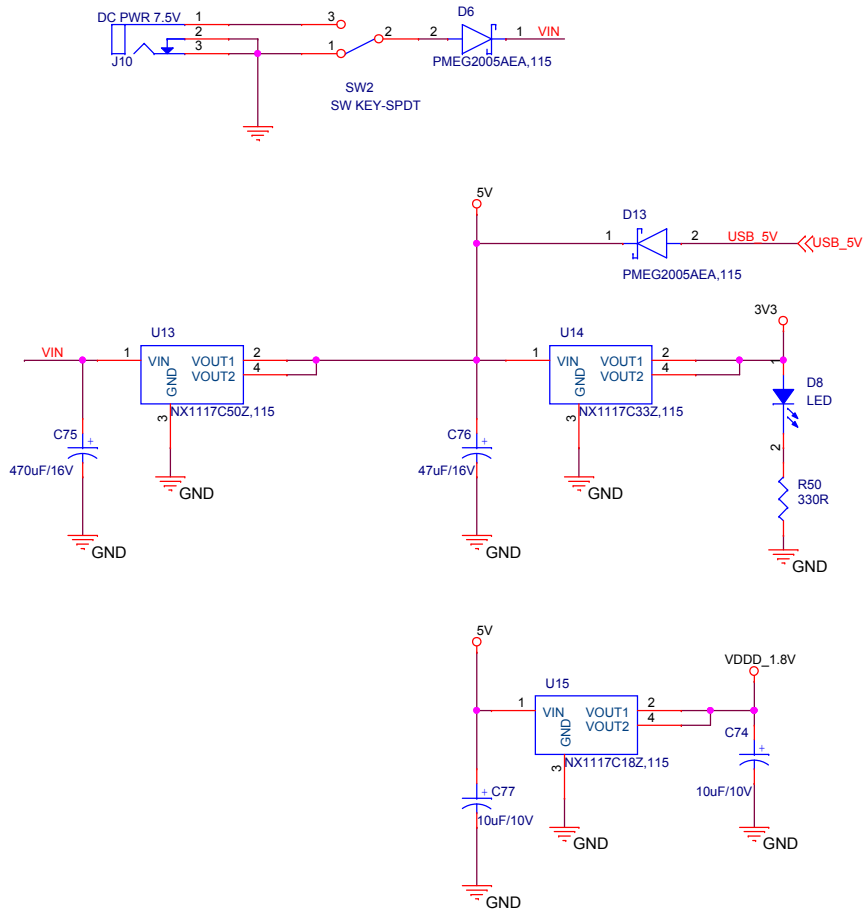
USB ROUTING GUIDELINES

- =>Route USB trace pairs together [DM & DP].
- =>Do not route USB traces under crystals, oscillators, magnetic devices or ICs that use and/or duplicate clocks.
- =>Route high-speed USB signals using a minimum of vias and corners.
- =>Use 20-mil minimum spacing between high-speed USB signal pairs and other signal traces for optimal signal quality.

HDMI



POWER



UNUSED PINS OF LPC4350

U1H			
L11	P9_6	P9_5	M9
L12	P9_4	P9_4	N10
J14	PA_0	P9_3	M6
K15	PA_1	P9_2	N8
H11	PA_2	P9_1	N6
G13	PA_3	P9_0	T1
E4	PA_4	P8_8	L1
L5	PC_1	P8_7	K4
N1	PC_11	P8_6	H5
F6	PC_14	P8_5	E0
N6	PC_2	P7_0	B16
F5	PC_3	P6_7	J13
N4	PC_8	P6_6	L14
N2	PC_9	P6_3	P15
P1	PC_0	P6_2	R15
P11	PC_1	P6_1	M12
N9	PC_10	P6_0	D5
N11	PC_11	P4_0	R5
T14	PC_12	P1_5	T3
R13	PC_13	P1_4	P5
T15	PC_14	P1_3	M10
R14	PC_15	P1_20	M11
E14	PC_16	P1_19	N12
D16	PE_10	P1_18	M8
D15	PE_11	P1_17	M7
F14	PE_12	P1_16	T12
E16	PE_8	P1_15	M2
D12	PE_9	P0_1	L3
E11	PF_0	N.C.	B9
A3	PF_1	N.C.	P12
A2	PF_10	CLK3	T10
D11	AF_11	CLK1	C5
A12	PF_2	ADC7	A5
E10	PF_3	ADC6	B3
D10	PF_4	ADC5	C6
E7	PF_5	ADC4	B5
B7	PF_6	ADC3	A4
E6	PF_7	ADC2	C3
D6	PF_8	ADC1	E0
	PF_9	ADC0	
LPC1850_4350			