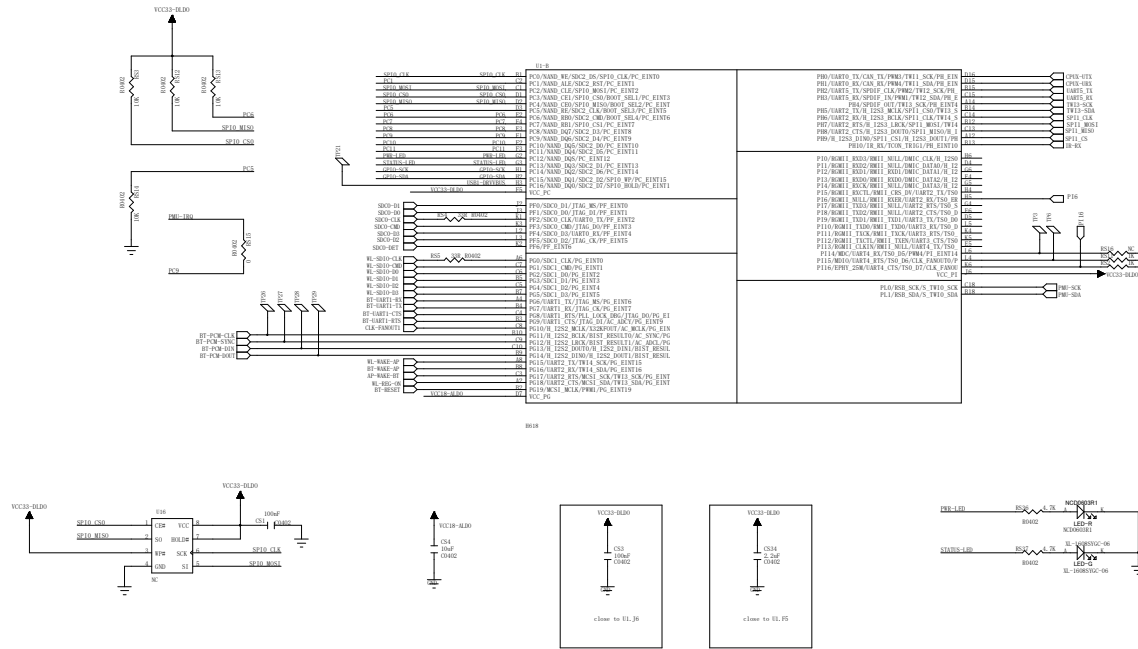


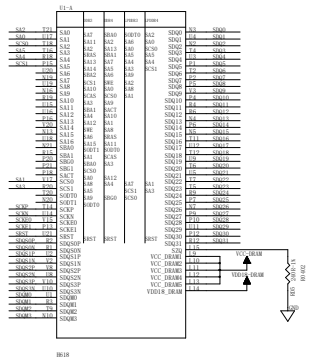
GPIO

GPIO use guide:

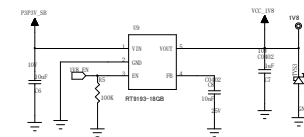
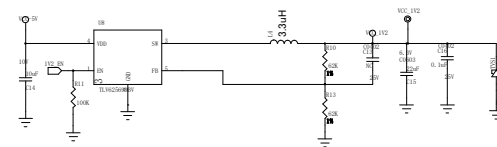
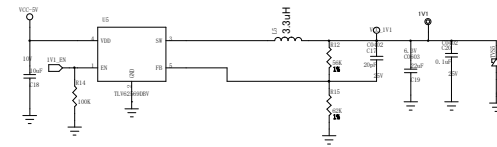
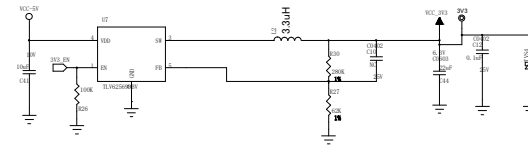
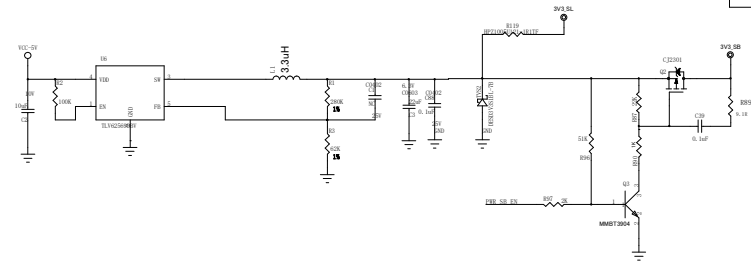
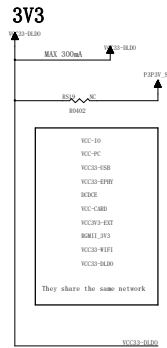
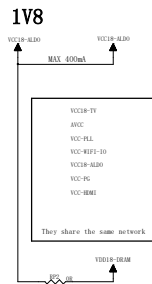
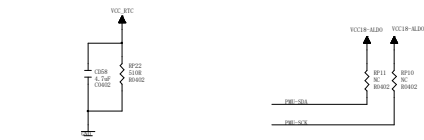
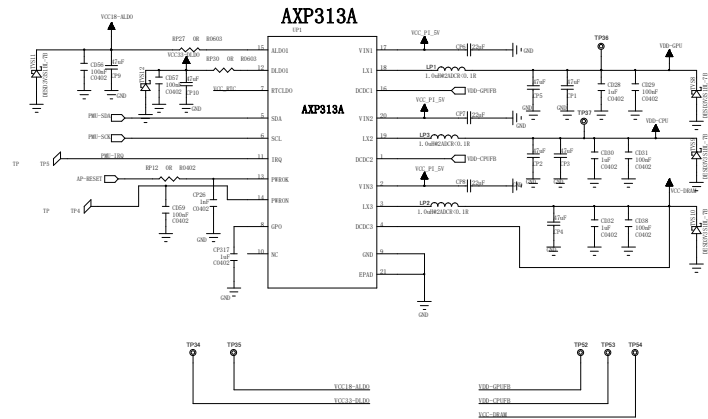
1. Note that the voltage of SOC GPIO must matches the external IO voltage.
2. The pull up voltage of the GPIO is selected to correspond to the power field voltage of GPIO.



REVISION RECORD			
LN	REV NO.	APPROVED	DATE



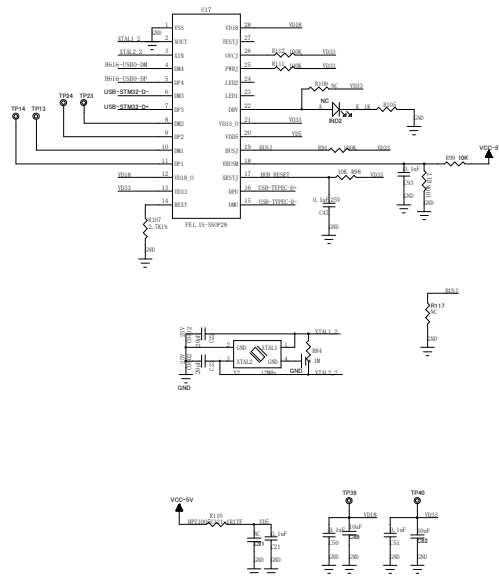
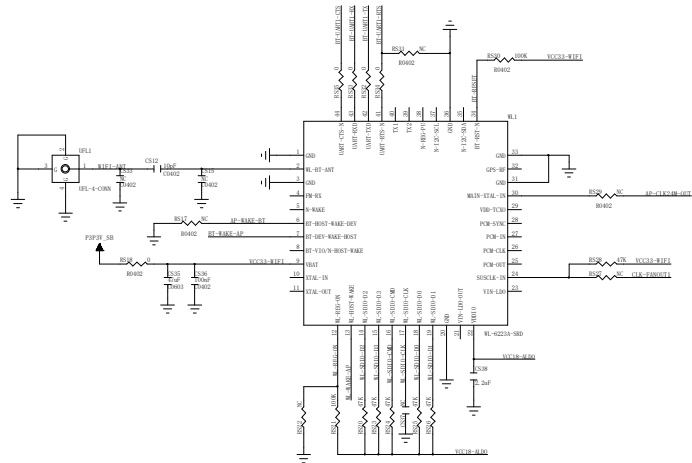
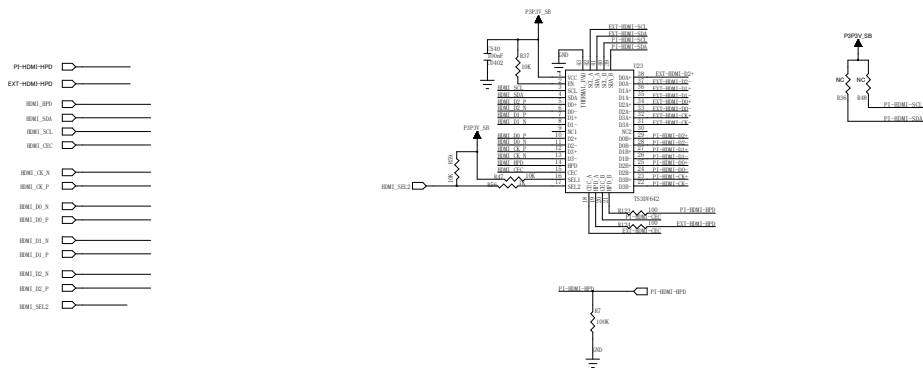
REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY:		LOOKING GLASS FACTORY			
TITLE:		LKG-GO-H618			
04					
024	CODE:	SIZE:	DRAWING NO:	REV:	
		D	LKG Go-H618_Mainboard_Rev3	3	
4	SCALE:		SHEET: 5 of 9		

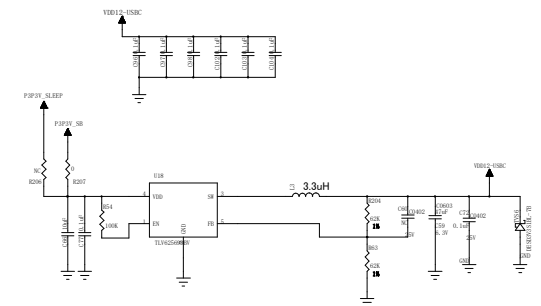
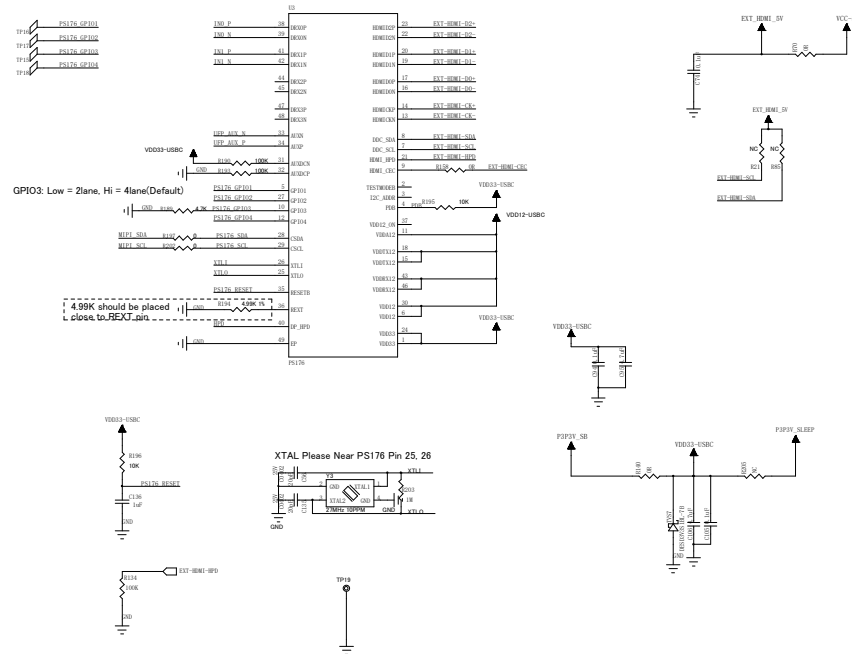
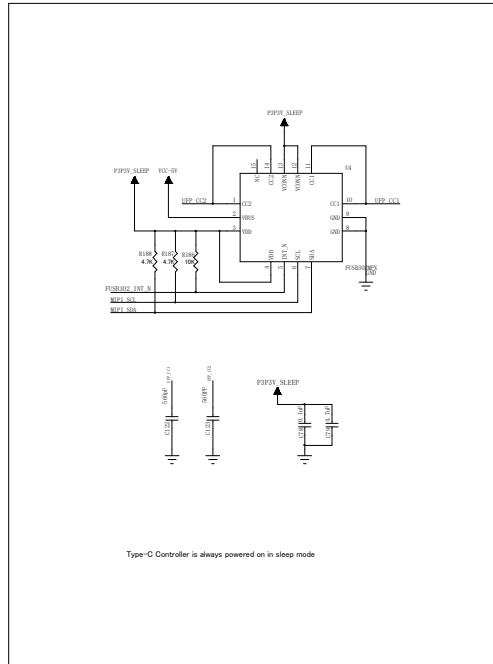
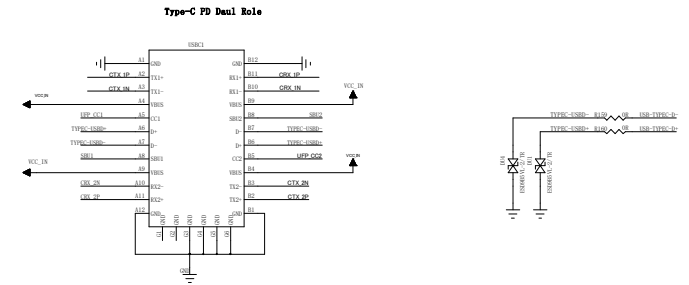
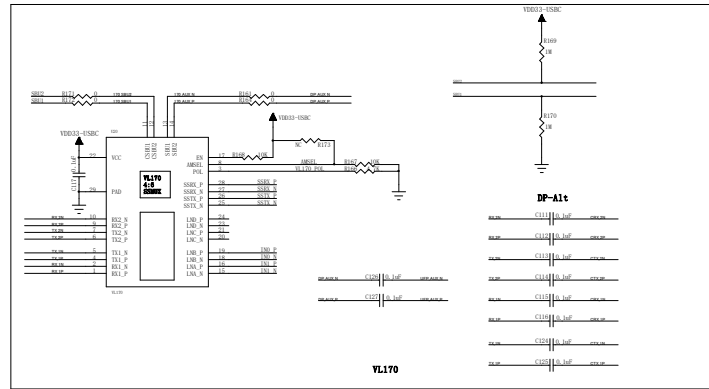
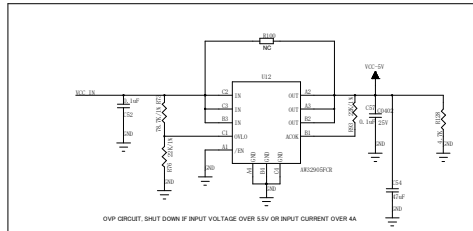
DEBRIEF:	Santim	DATED:	Feb 21, 202
CHECKED:	William	DATED:	Feb 21, 202
QUALITY CONTROL:		DATED:	
RELEASED:	Kevin	DATED:	Feb 21, 202

REVISION RECORD			
LR	REV NO.	APPROVED	DATE



LOOKING GLASS FACTORY			
TITLE:			
LKG-GO-H618			
DESIGN:	Sant in	DATE:	Feb 21, 2024
CHECKED:	William	DATE:	Feb 21, 2024
QUALITY CONTROL:		DATE:	
RELEASED:	Kevin	DATE:	Feb 21, 2024
CODE:	D	SIZE:	6 1/8"
DEPARTING NO:	LKG-GO-H618.Mainboard.Rev3	REV:	3
SCALE:	SHEET: 6 of 9		

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



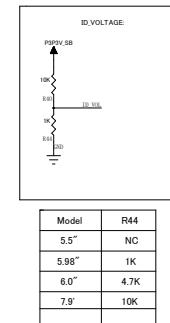
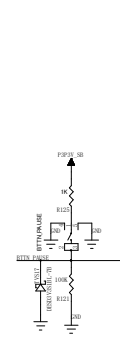
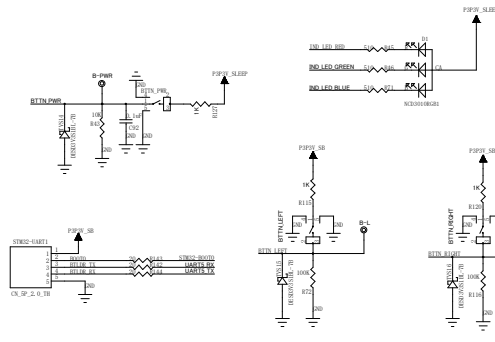
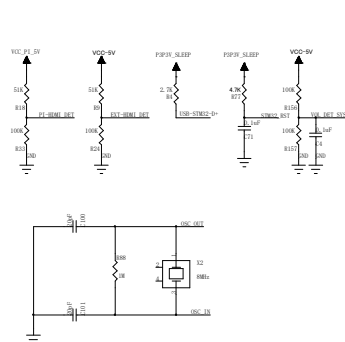
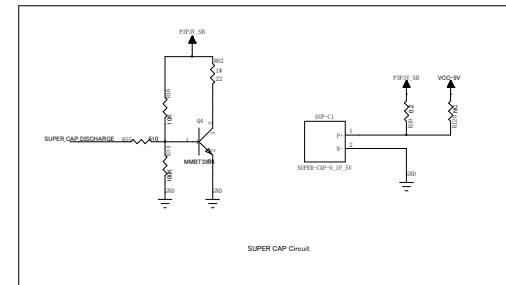
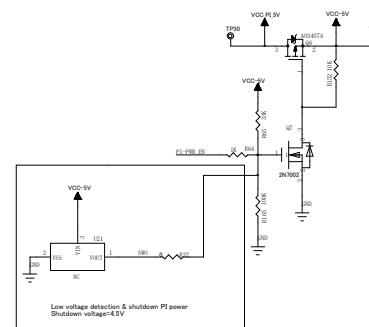
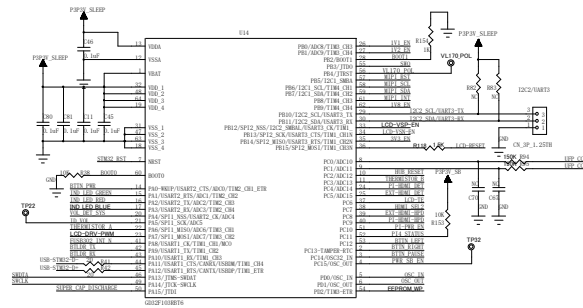
COMPANY:		LOOKING GLASS FACTORY			
TITLE:		LKG-GO-H618			
24	CODE:	SIZE:	DRAWING NO:		REV:
	D		LKG Go-H618_Mainboard_Rev3		3
24	SCALE:		SHEET: 7 OF 9		

DRUGS:	Samtin	DATED:	Feb 21, 2024
CHECKED:	William	DATED:	Feb 21, 2024
QUALITY CONTROL:		DATED:	
RELEASED:	Kevin	DATED:	Feb 21, 2024

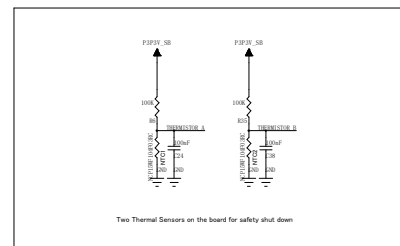
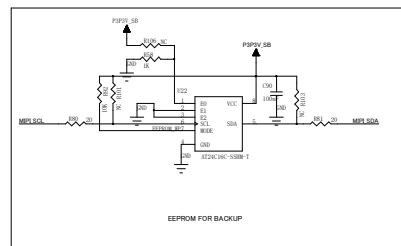
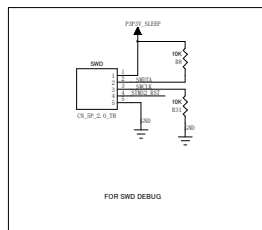
CODE:	SIZE:	DRAWING NO:	REV:
	D	LKG Go-H618_Mainboard_Rev3	3

FILE: SHEET: 7 OF 9

REVISION HISTORY			
LN	REV NO	APPROVED	DATE

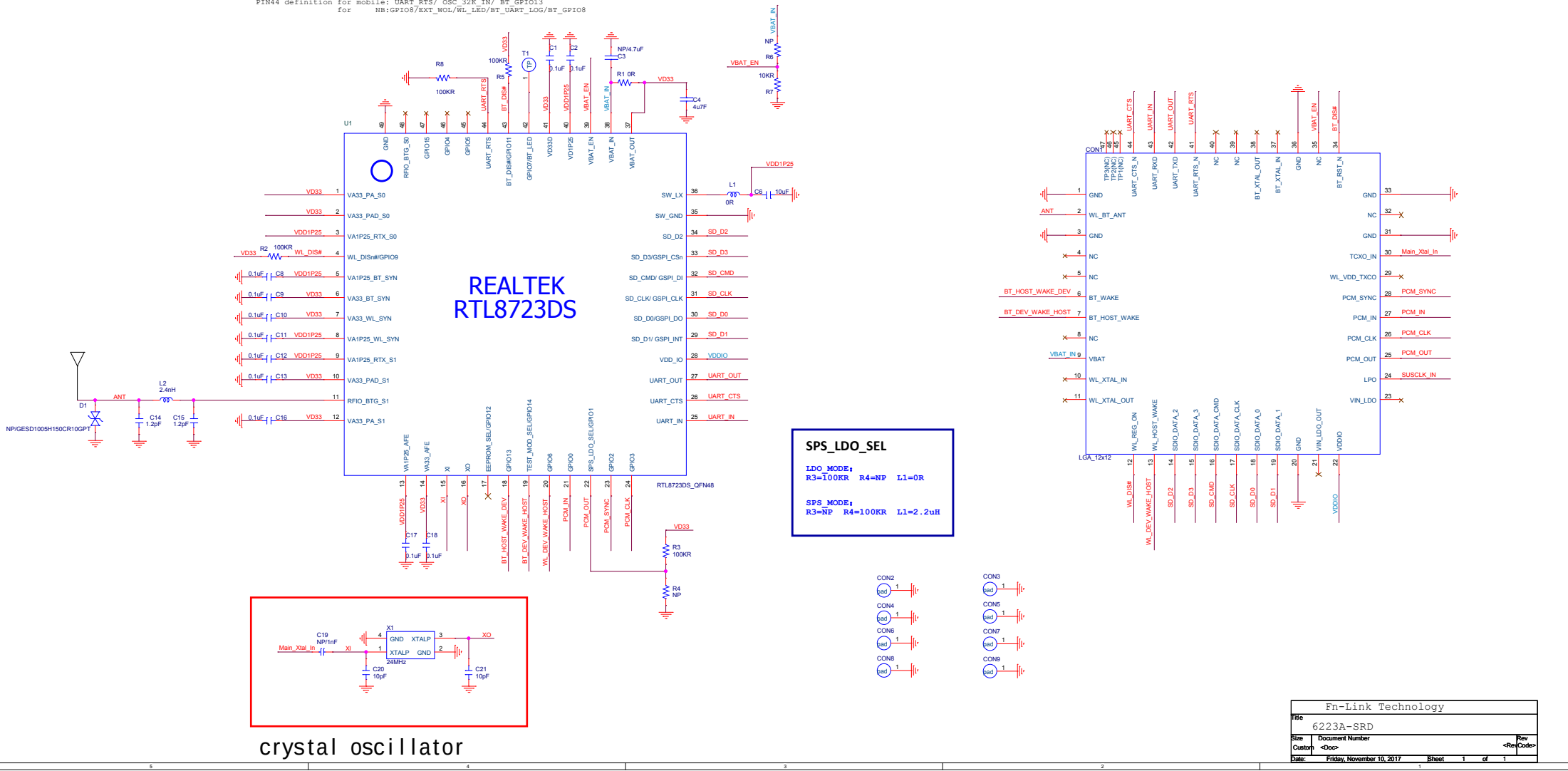


Model	R44
5.5"	1K
5.98"	1K
6.0"	4.7K
7.9"	10K



LOOKING GLASS FACTORY			
TITLE: LKG-GO-H618			
DESIGN: Santin	DATE: Feb 21, 2024	CODE: D	SIZE: 8 1/2"
CHECKED: William	DATE: Feb 21, 2024	DESIGNING NO: LKG Go-H618, Mainboard, Rev3	REV: 3
QUALITY CONTROL:	DATE:	SCALE: 8 1/2"	9
RELEASED: Kevin	DATE: Feb 21, 2024		

PIN44 definition for mobile: UART_RTS/ OSC_32K_IN/ BT_GPIO13
for NB:GPIO8/EXT_WOL/WL_LED/BT_UART_LOG/BT_GPIO8



REVISION RECORD			
LN	REV NO	APPROVED	DATE

REVISION NOTE:

Portrait--> LKG Go_REV0:

1. Remove FRONT-LED-PWM from PA6 as there is no Front LED on Nano
2. Remove Front LED Button on Pin PC15 as there is no front LED on Nano
3. Remove USB-SEL on PC3 as there is no 2nd SD card on the board
4. Add thermal sensor A on PA6
5. Add thermal sensor B on PC3
5. Add H618+LPDDR4+AXP313A and related circuit for Linux system
6. Remove CC1 and CC2 5.1K pull down resistor R96 and R97
7. Change VCC-PG (WIFI VCCIO) to 1.8V
8. Combine VCC-HDMI to VCC18-ALDO
9. Add pull-up resistor RS41 for SDIO-CMD for backup
10. Split the 13Pin Orangepi connector to a few test pins to save PCB size
11. Add AGND for codec circuit, VRA1, VRA2, REXT and pin.H18 on H618
12. Add pull-up resistor footprint for STM32-I2C2 for backup

LKG Go_REV0 -----> REV1:

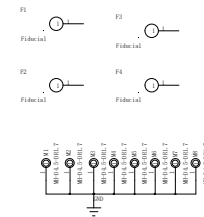
1. Add R87, R89, R90, R96, R97, R119, Q2, Q3, R86, R102, R113, R114, DU2, DU3, C25, C39, U2
2. Add R133, R162, R163, R184, R185, C55, Q5, Q8 for lower down sleep current
3. Add a hidden USB Type-A connector USB2
3. Add a solder jumper to bridge pin PC8 on H618 to ground for landscape mode
4. Add current limit circuit for USB-A as it is exposed to user for connecting variety of devices

LKG Go_REV1 -----> REV2:

1. Change the USB-C chip from CS5261AN to PS176
2. Add USB-C control chip FUSB302MPX
3. Add R195, R194, R197, R202, R189, R190, R193, U3, U4, R186, R187, R188, R196, C136, R204, R205, R206, R207, Y3, C56, C135, R203
4. Remove R69, U13, R108, R155, R137, R138, CN1, C76, R184, R185, R162, R163, Q8, Q5, C55, R133, R139, C73, R57
5. Change R100 and U16 to NC
6. Add R57 for Portrait / Landscape selection

LKG Go_REV2 -----> REV3

1. Change R51 and R53 to NC
2. Change R187 and R188 to 4.7K



DESIGN:		Sant in		DATE:		Feb 21, 2024		COMPANY: LOOKING GLASS FACTORY			
CHECKED:		William		DATE:		Feb 21, 2024		TITLE: LKG-GO-H618			
QUALITY CONTROL:				DATE:				CODE:	SIZE:	DRAWING NO:	REV:
RELEASED:		Kevin		DATE:		Feb 21, 2024			D	LKG Go-H618_Mainboard_Rev3	3
								SCALE:		SHEET: 9 of 9	