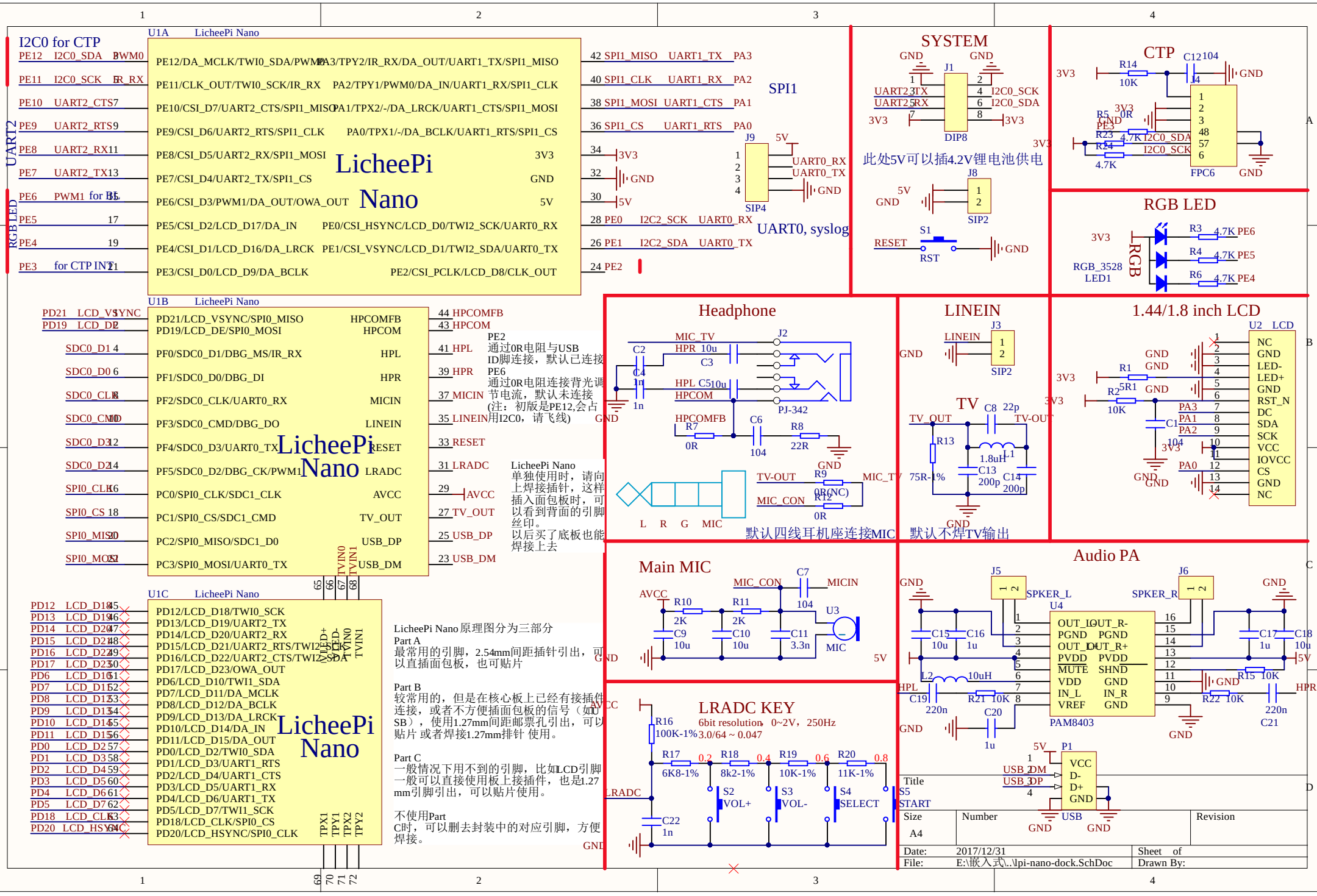
I2C0 for CTP
UART2
RGB LED
U1A LicheePi Nano
PE12/DA_MCLK/TWI0_SDA/PWM0
PE11/CLK_OUT/TWI0_SCK/IR_RX
PE10/CSI_D7/UART2_CTS/SPI1_MISO
PE9/CSI_D6/UART2_RTS/SPI1_CLK
PE8/CSI_D5/UART2_RX/SPI1_MOSI
PE7/CSI_D4/UART2_TX/SPI1_CS
PE6/CSI_D3/PWM1/DA_OUT/OWA_OUT
PE5/CSI_D2/LCD_D17/DA_IN
PE4/CSI_D1/LCD_D16/DA_LRCK
PE3/CSI_D0/LCD_D9/DA_BCLK
PA3/TPY2/IR_RX/DA_OUT/UART1_TX/SPI1_MISO
PA2/TPY1/PWM0/DA_IN/UART1_RX/SPI1_CLK
PA1/TPX2/-/DA_LRCK/UART1_CTS/SPI1_MOSI
PA0/TPX1/-/DA_BCLK/UART1_RTS/SPI1_CS
PE2/CSI_PCLK/LCD_D8/CLK_OUT
LicheePi Nano
SPI1
UART0, syslog
U1B LicheePi Nano
PD21/LCD_VSYNC/SPI0_MISO
PD19/LCD_DE/SPI0_MOSI
PF0/SDC0_D1/DBG_MS/IR_RX
PF1/SDC0_D0/DBG_DI
PF2/SDC0_CLK/UART0_RX
PF3/SDC0_CMD/DBG_DO
PF4/SDC0_D3/UART0_TX
PF5/SDC0_D2/DBG_CK/PWM1
PC0/SPI0_CLK/SDC1_CLK
PC1/SPI0_CS/SDC1_CMD
PC2/SPI0_MISO/SDC1_D0
PC3/SPI0_MOSI/UART0_TX
HPCOMFB
HPCOM
HPL
HPR
MICIN
LINEIN
RESET
LRADC
AVCC
TV_OUT
USB_DP
USB_DM
PE2
通过0R电阻与USB ID脚连接，默认已连接
PE6
通过0R电阻连接背光调节电流，默认未连接
(注：初版是PE12,会占用I2C0，请飞线)
LicheePi Nano
单独使用时，请向上焊接插针，这样插入面包板时，可以看到背面的引脚丝印。
以后买了底板也能焊接上去
U1C LicheePi Nano
PD12/LCD_D18/TWI0_SCK
PD13/LCD_D19/UART2_TX
PD14/LCD_D20/UART2_RX
PD15/LCD_D21/UART2_RTS/TWI2_SCK
PD16/LCD_D22/UART2_CTS/TWI2_SDA
PD17/LCD_D23/OWA_OUT
PD6/LCD_D10/TWI1_SDA
PD7/LCD_D11/DA_MCLK
PD8/LCD_D12/DA_BCLK
PD9/LCD_D13/DA_LRCK
PD10/LCD_D14/DA_IN
PD11/LCD_D15/DA_OUT
PD0/LCD_D2/TWI0_SDA
PD1/LCD_D3/UART1_RTS
PD2/LCD_D4/UART1_CTS
PD3/LCD_D5/UART1_RX
PD4/LCD_D6/UART1_TX
PD5/LCD_D7/TWI1_SCK
PD18/LCD_CLK/SPI0_CS
PD20/LCD_HSYNC/SPI0_CLK
LicheePi Nano
LicheePi Nano原理图分为三部分
Part A
最常用的引脚，2.54mm间距插针引出，可以直插面包板，也可贴片
Part B
较常用的，但是在核心板上已经有接插件连接，或者不方便插面包板的信号（如USB），使用1.27mm间距邮票孔引出，可以贴片或者焊接1.27mm排针使用。
Part C
一般情况下用不到的引脚，比如LCD引脚一般可以直接使用板上接插件，也是1.27mm引脚引出，可以贴片使用。
不使用Part C时，可以删去封装中的对应引脚，方便焊接。
SYSTEM
J1
DIP8
此处5V可以插4.2V锂电池供电
J8
SIP2
S1
RESET
RST
CTP
FPC6
RGB LED
RGB_3528 LED1
RGB
Headphone
J2
PJ-342
MIC_TV
HPR
HPL
HPCOM
HPCOMFB
TV-OUT
MIC_CON
L R G MIC
默认四线耳机座连接MIC
LINEIN
J3
SIP2
TV
TV_OUT
TV-OUT
75R-1%
1.8uH
默认不焊TV输出
1.44/1.8 inch LCD
U2 LCD
NC
GND
LED-
LED+
RST_N
DC
SDA
SCK
VCC
IOVCC
CS
Main MIC
MIC_CON
MICIN
MIC
LRADC KEY
6bit resolution，0~2V，250Hz
3.0/64 ~ 0.047
S2 VOL+
S3 VOL-
S4 SELECT
S5 START
Audio PA
J5
J6
SPKER_L
SPKER_R
U4
PAM8403
OUT_L+
OUT_L-
OUT_R-
OUT_R+
PGND
PVDD
MUTE
SHND
VDD
IN_L
IN_R
VREF
HPL
HPR
P1
USB
Title
Size
A4
Number
Revision
Date: 2017/12/31
File: E:\嵌入式\..\lpi-nano-dock.SchDoc
Sheet of
Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
104	SMD-CAP	C1, C6, C7, C12	0402C	CAP	4
1n	SMD-CAP	C2, C4, C22	0402C	CAP	3
10u	SMD-CAP	C3, C5, C9, C10, C15, C18	0603C	CAP	6
22p	SMD-CAP	C8	0402C	CAP	1
3.3n	SMD-CAP	C11	0402C	CAP	1
200p	SMD-CAP	C13, C14	0402C	CAP	2
1u	SMD-CAP	C16, C17, C20	0402C	CAP	3
220n	SMD-CAP	C19, C21	0402C	CAP	2
DIP8	Connectors	J1	DIP8-2.54_SMT	DIP8	1
PJ-342		J2	PJ-342	PJ-342	1
SIP2	jointbar	J3, J8	SIP2-2.54	SIP2	2
FPC6		J4	FPC-6P-0.5	FPC6	1
SPKER_L	jointbar	J5	SIP2_2.54_smt	SIP2	1
SPKER_R	jointbar	J6	SIP2_2.54_smt	SIP2	1
SIP4	jointbar	J9	SIP4-2.54	SIP4	1
1.8uH	电感	L1	0603R	L1	1
10uH	电感	L2	0805R	L1	1
RGB_3528		LED1	LED_RGB3528	LED_RGB3528	1
USB	USB 1.1, Right Angle, SMT, A Type, Plug, 4 Position, Natural	P1	USBB	USB	1
5R1		R1	0402R	R	1
10K		R2, R14, R15, R21, R22	0402R	R	5
4.7K		R3, R4, R6, R23, R24	0402R	R	5
0R		R5, R7, R12	0402R	R	3
22R		R8	0402R	R	1
0R(NC)		R9	0402R	R	1
2K		R10, R11	0402R	R	2
75R-1%		R13	0402R	R	1
100K-1%		R16	0402R	R	1
6K8-1%		R17	0402R	R	1
8k2-1%		R18	0402R	R	1
10K-1%		R19	0402R	R	1
11K-1%		R20	0402R	R	1
RST	Switch	S1	key4_3x4	SW-PB	1
VOL+	Switch	S2	key4_3x4	SW-PB	1
VOL-	Switch	S3	key4_3x4	SW-PB	1
SELECT	Switch	S4	key4_3x4	SW-PB	1
START	Switch	S5	key4_3x4	SW-PB	1
LicheePi Nano		U1	lpi-nano-dip	lpi-nano	1
LCD		U2	LCD_SPI_14P_top_1.8	LCD_SPI_14P	1
MIC		U3	MIC_6027	MIC	1
PAM8403		U4	SO-16N	PAM8403	1