电源开关

5V稳压

舵机5V

3V3稳压

核心板

电机接口

磁力计

CSI接口

打光灯

电磁铁

串口4

串口1

无线串口

ICM接口

OLED/TFT/IPS接口

编码器接口

固定孔

舵机控制

VCCBAT
VCCBAT
VCC5V
VCCSERVO
VCC5V
3V3
CSI3v3

TPS5450
TPS5450
RT9013-33
RT9013-33
RT9013-33

MIMXRT1064xVL_CoreBoard
IMX-RT1064xVL CoreBoard Vx.x
逐飞科技 SEEKFREE

B540C
1N5819
BZT52C16
VBE1302
SWITCH-SPST

HDR2x3
HDR1x2
HDR1x7
HDR1x4
HDR2x8
HDR1x2
HDR1x4
HDR1x8
HDR1x8
HDR2x3

Hole1 Hole2 Hole3 Hole4 Hole5 Hole6
3mmVias

1117-xx
0805磁珠
LED

Comment	Description	Designator	Footprint	LibRef	Quantity
220UF	Tantalum Capacitor	C1, C14, C15	DIP-EC3.5X8X11.5	CAP-TANTALUM	3
10UF	Capacitor	C2, C3, C12, C13, C20, C25, C27	0603	CAP	7
10UF	Tantalum Capacitor	C4, C5, C8, C16, C19, C24	106	CAP-TANTALUM	6
0.1UF	Capacitor	C6, C7, C17, C18, C22, C23, C26, C28	0603	CAP	8
10NF	Capacitor	C9, C10	0603	CAP	2
100UF	Tantalum Capacitor	C11	DIP-EC2.5X6.3X11.2	CAP-TANTALUM	1
47UF	Capacitor	C21	1206	CAP	1
BZT52C16	Schottky Diode	D1	SOD-123	SS5x	1
B540C	Schottky Diode	D2, D3	SMC	SS5x	2
1N5819	Schottky Diode	D4	SOD-123	SS5x	1
3mmVias		Hole1, Hole2, Hole3, Hole4, Hole5, Hole6	3mm	3mmVias	6
TX60	Connector	J1	焊盘	HDR1x2	1
HDR1x3	Connector	J2, J22, J23	PIN-3-2.54-1.0	HDR1x3	3
HDR2x8	Connector	J3	Fe-HDR2X8/2.54-S	HDR2x8	1
HDR2x3	Connector	J4, J10	PIN-2x3-2.54-1.0	HDR2x3	2
HDR1x2	Connector	J5, J8	TX30_焊盘	HDR1x2	2
HDR1x7	Connector	J6	PIN-7-2.54-1.0	HDR1x7	1
HDR1x4	Connector	J9, J11, J12	XH4/2.54mm/180	HDR1x4	3
HDR1x8	Connector	J13, J18	Fe-HDR1X8/2.54-S	HDR1x8	2
HDR2x3	Connector	J14, J15, J16, J17	pin_2*3	HDR2x3	4
HDR1x4	Connector	J19	PIN-4-2.54-1.0	HDR1x4	1
HDR1x2	Connector	J20, J21	PIN-2-2.54-1.0	HDR1x2	2
10UH	Inductance	L1	CDRH73	INDUCTANCE	1
22UH	Inductance	L2	CDRH73	INDUCTANCE	1
LED	LED	LED1, LED2	0603-led	LED	2
VBE1302	N-Channel MOSFET	Q1	TO252	FDB52N20	1
10K	Resistor	R1, R2, R3, R4, R20, R31	0603	RES	6
4.7K	Resistor	R5, R32	0603	RES	2
0805磁珠	Resistor	R6	0805	RES	1
2.2K	Resistor	R7, R13	0603	RES	2
3.24K	Resistor	R8, R9	0603	RES	2
1K	Resistor	R10, R14, R17, R19	0603	RES	4
5K	Resistor	R11, R12	0603	RES	2
100R	Resistor	R15, R16, R21, R22, R26, R27, R29, R30	0603	RES	8
SWITCH-SPST	Switch	SW1	ss12d10	SWITCH-SPST	1
SWITCH	Switch	SW2, SW3, SW4, SW5	按键	SWITCH	4
RT9013-33	3.3V 500mA SOT23-5 LDO	U1, U2, U5	RT9013-33	RT9013-33	3
TPS5450		U3, U4	TPS5450	TPS5450	2
MIMXRT1064xVL_CoreBoard	逐飞科技i.MX RT1064核心板整体原理，可直接使用	U6	MIMXRT1064xVL_CoreBoard	MIMXRT1064xVL_CoreBoard	1
1117-xx	Linear Regulator	U7	SOT223_4	1117	1