IC2
VBUS —— IN OUT —— +3V3
C1　GND
1uF
SC662K
C2
1uF
GND GND GND

LED1 R1 +3V3
10K
Green
GND

VBUS PWR_FLAG
PWR_FLAG GND

+3V3 IC1
VCC OUT —— XIN
OE GND
12 MHz GND

IC3 — RP2040

Pin	Net	Signal		Signal	Pin	Net
0	J1	GPIO0	USB_DM	46	R2 27	USB_DM
1	J2	GPIO1	USB_DP	47	R3 27	USB_DP
2	J3	GPIO2				
3	J4	GPIO3				
4	J5	GPIO4	QSPI_SS	56		QSPI_SS
5	J6	GPIO5	QSPI_SCLK	52		QSPI_SCLK
6	J7	GPIO6	QSPI_SD0	53		QSPI_SD0
7	J8	GPIO7	QSPI_SD1	55		QSPI_SD1
8	J9	GPIO8	QSPI_SD2	54		QSPI_SD2
9	J10	GPIO9	QSPI_SD3	51		QSPI_SD3
10	J11	GPIO10				
11	J12	GPIO11				
12	J13	GPIO12	SWCLK	24		SWCLK
13	J14	GPIO13	SWDIO	25		SWDIO
14	J15	GPIO14	RUN	26		RESET
15	J16	GPIO15				
16	J17	GPIO16				
17	J18	GPIO17	XIN	20		XIN
18	J19	GPIO18	XOUT	21		
19	J20	GPIO19				
20	J21	GPIO20				
21	J22	GPIO21	ADC_AVDD	43		+3V3
22	J23	GPIO22	USB_VDD	48		
23	J24	GPIO23	IOVDD*6	1		
24	J25	GPIO24	VREG_IN	44		+1V1
25	J26	GPIO25	VREG_OUT	45		
26	J27	GPIO26	DVDD*2	23		
27	J28	GPIO27				
28	J29	GPIO28	TESTEN	19		
29	J30	GPIO29	GND	57		GND

+3V3
C3
100nF
GND

VBUS J35
VBUS D−
VBUS D−
S1 D+
S2 D+
S3 CC1
S4 CC2
GNDSBU1 R4 5.1K
GNDSBU2 R5 5.1K
GND USB-C GND GND

USB_DM
USB_DP

SWDIO —— TP1 SWDIO
SWCLK —— TP2 SWCLK
RESET —— TP3 RESET
—— TP4 GND
GND

SW1
RESET GND

SW2
QSPI_SS GND

IC4
QSPI_SS —— 1 CS VCC 8 —— +3V3
QSPI_SD1 —— 2 SO/IO1 H/IO3 7 —— QSPI_SD3
QSPI_SD2 —— 3 WP/IO2 SCK 6 —— QSPI_SCLK
—— 4 GND SI/IO0 5 —— QSPI_SD0
GND SPI-FLASH

GND J31
GND J32
GND J33
GND J34
GND

+3V3	+3V3	+3V3	+3V3	+3V3	+3V3	+3V3
C4	C6	C8	C10	C11	C12	C13
100nF	100nF	100nF	100nF	100nF	100nF	1uF
GND	GND	GND	GND	GND	GND	GND

+1V1	+1V1	+1V1
C5	C7	C9
100nF	100nF	1uF
GND	GND	GND

Logo1
AT