C15 C13 C12

U2

J1

C10

D3

FB1

R10 C16

J2

J3

C4

R1

C5 C1 R2

FB2

C6

R11

U1

R6

C8

C7

C20

C3

FB4

R12

Y1

C11

C2

FB3

C18

C17

JP1

D2 R7

U3

D1 R3

C19 SW2

R13 D4 R5 C14

RESET

HWB

SW1

C9 R4

J4

OpenRetroPad ATmega32u4
v1 MAY-2021
OpenRetroPad.com
JLCJLCJLCJLC

ATmega32u4   DB9

ATmega32u4	DB9
1 GND	14
5V	
3V3	2
15 PB3	
3 PB2	
16 PB1	
4 PF0	
17 PF4	
5 PF5	
18 PF6	
6 PF7	
19 PC6	
7 —	
20 PB6	
8 PB5	
21 PB4	
9 PD7	
22 PD4	
10 PD3	
23 PD2	
11 PD1	
24 PD0	
12 3V3	
25 5V	
13 GND	

PF1	PB2	PB4	3V3
PB3	PB1	PB5	GND

DESIGNED WITH
KiCad

open hardware

46.000 mm

36.000 mm

25.700 mm

0.850 mm

64.000 mm

74.000 mm

10.700 mm

H1

3.2mm_M3

H2

3.2mm_M3

USB_C_Receptacle_USB2.0

100n C11 C10 C12

U2

AMS1117-3.3

10u
D13
500mA

J1

5.1k R10 NRF517 R16

10u

5.1k
R11

500mA
1u

U1

500mA
100n

C6

C8
100n

R6
1k

10u
C20
5.1k R12 20pF
C3 100n
ATmega32U4
20pF C2 16MHz
Y1

500mA
100n

USB_C_Receptacle_USB2.0

J4

500mA

J3

DB25_Female_MountingHoles

C18
100n
U3
C17 C19
100n 100n

D4
LED R1

SJ_2_BR

D1
Power LED R3
1k

H3

3.2mm_M3

5.1k R13 R15
1N5817 SW_Push
SW2

SW_Push
SW1
C9 R4
100n 10k

H4

3.2mm_M3