KiBot variants example
Not a real life board

J1
Barrel_Jack_Switch

+5V   PWR_FLAG

C1 47uF
C2 100nF

PWR_FLAG

GND   GND   GND

PWR_FLAG VBUS

TP2 TestPoint

F1 MF-MSMF050-2

J2 USB_B

TP3 TestPoint

VBUS

Shield

D+
D-

GND

TP5 TestPoint

R1 22R

R2 22R

TP4 TestPoint

VR1
CG0603MLC-05E

VR2
CG0603MLC-05E

FB1 BLM21PG221SN1D

JP1 SolderJumper_2_Open

1 2

GND

TP6 TestPoint

CD1206-S01575
RESET2

D1   R4 10K

+5V +5V

TP8 TestPoint

Y1 16MHz

R3 1M

C3 22pF   C4 22pF

GND   GND

C5 1uF

TP9 TestPoint

VBUS +5V

C6 100nF   C7 100nF

GND

U1

24 PC1/RESET
1   XTAL1
2   PC0/XTAL2
29 D+
30 D-
27 UCAP

UVCC 31
VCC 4
AVCC 32

PB0 14
PB1 15 SCK2
PB2 16 MOSI2
PB3 17 MISO2
PB4 18
PB5 19
PB6 20
PB7 21

PC2 5
PC4 26
PC5 25
PC6 23
PC7 22

PD0 6
PD1 7
PD2 8
PD3 9
PD4 10 RXLED
PD5 11 TXLED
PD6 12
HWB/PD7 13 DTR

UGND 28
GND 3

ATmega8U2-AU

GND

R5 1K   C8 100nF

GND

J5 ICSP1   +5V

MISO2 1 2
SCK2 3 4 MOSI2
RESET2 5 6

GND

J4 2x2M

1   2
3   4

J3 P1

5
4
3
2
1

J6 P2

6
5
4
3
2
1

+5V   +5V

R6 1K   R7 1K

D2 LED   D3 LED

H1 MountingHole
H2 MountingHole
H3 MountingHole
H4 MountingHole

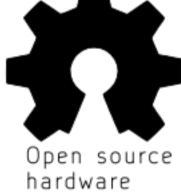FID1 Fiducial FID2 Fiducial FID3 Fiducial FID4 Fiducial

Open source hardware

This logo has a REF starting with #
Won't be passed to the PCB