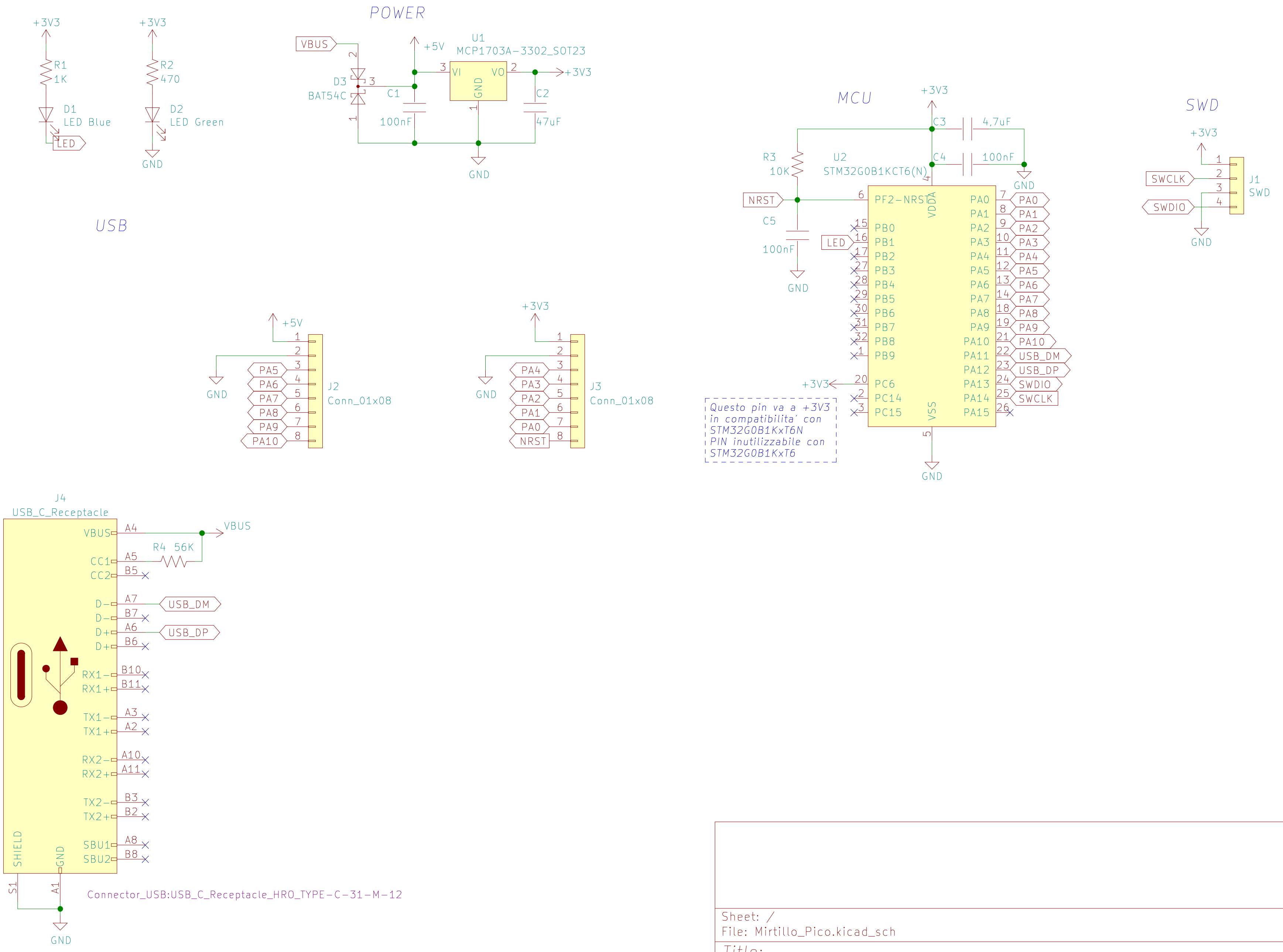
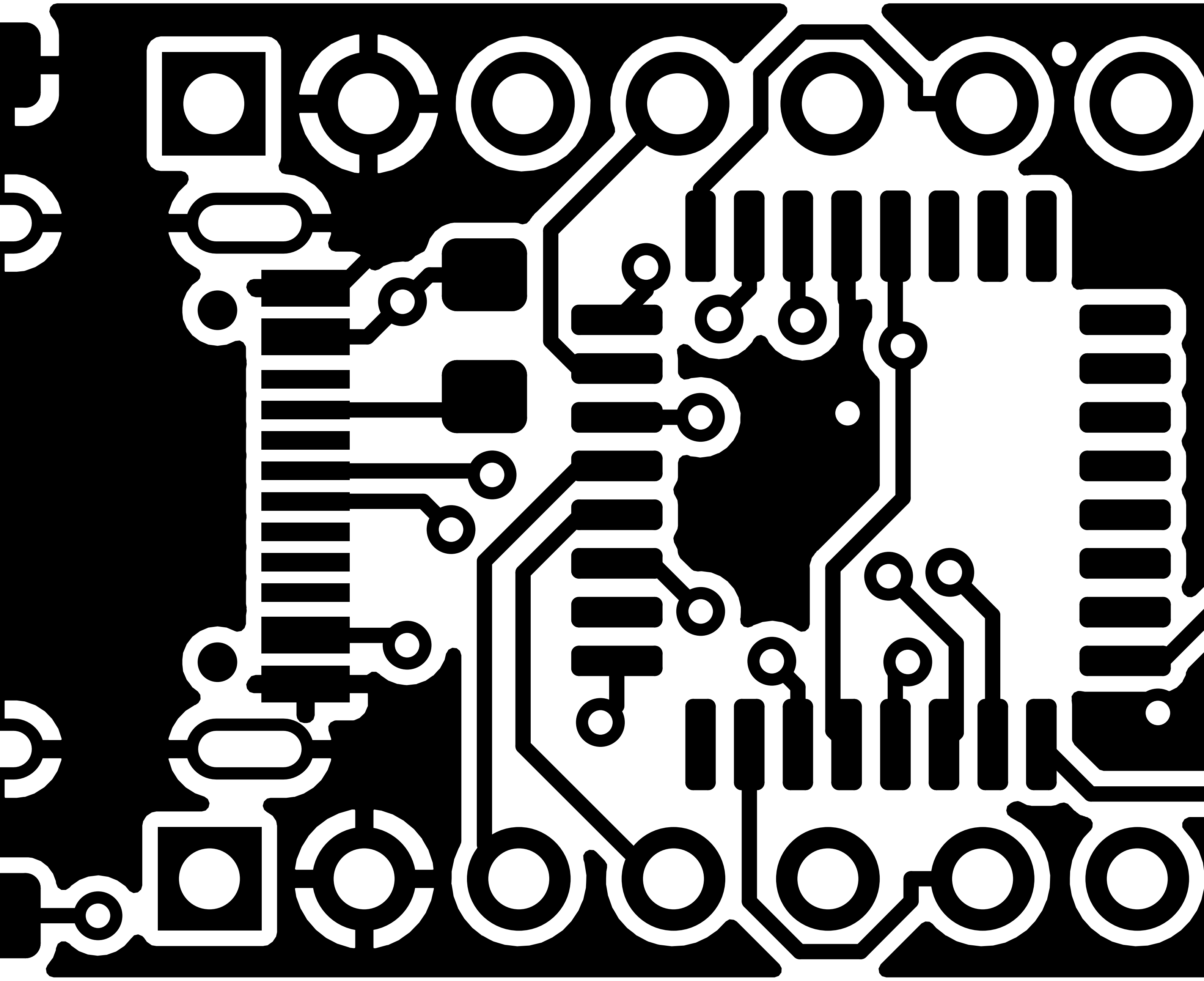

POWER
VBUS
D3
BAT54C
+5V
U1
MCP1703A-3302_SOT23
VI
VO
GND
C1
100nF
C2
47uF
+3V3
GND
R1
1K
D1
LED Blue
LED
R2
470
D2
LED Green
USB
MCU
U2
STM32G0B1KCT6(N)
PF2-NRST
VDDA
VSS
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PC6
PC14
PC15
USB_DM
USB_DP
SWDIO
SWCLK
NRST
R3
10K
C3
4.7uF
C4
100nF
C5
100nF
SWD
J1
SWD
J2
Conn_01x08
J3
Conn_01x08
J4
USB_C_Receptacle
VBUS
CC1
CC2
D-
D+
RX1-
RX1+
TX1-
TX1+
RX2-
RX2+
TX2-
TX2+
SBU1
SBU2
SHIELD
R4 56K
Connector_USB:USB_C_Receptacle_HRO_TYPE-C-31-M-12

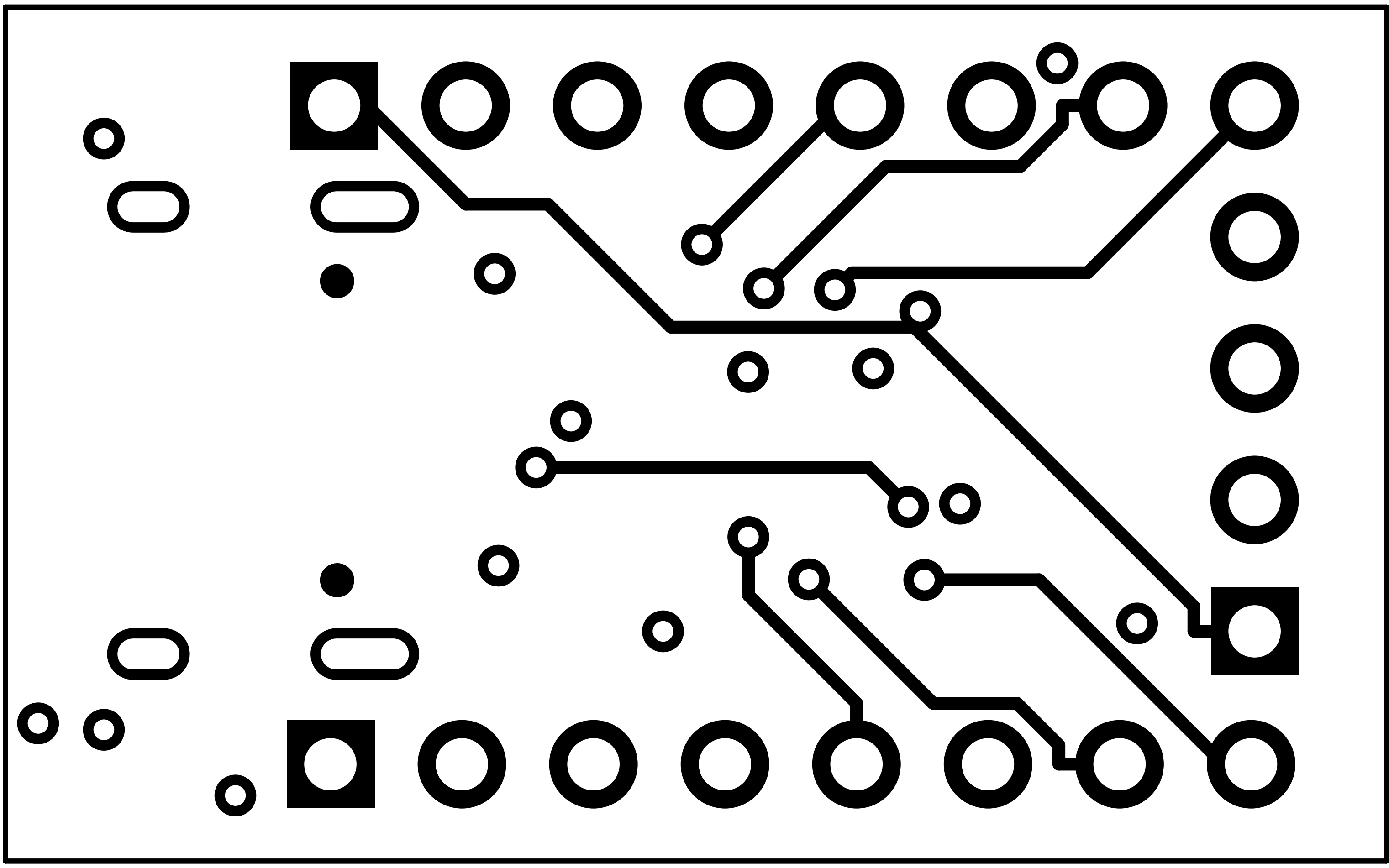
Questo pin va a +3V3
in compatibilita' con
STM32G0B1KxT6N
PIN inutilizzabile con
STM32G0B1KxT6

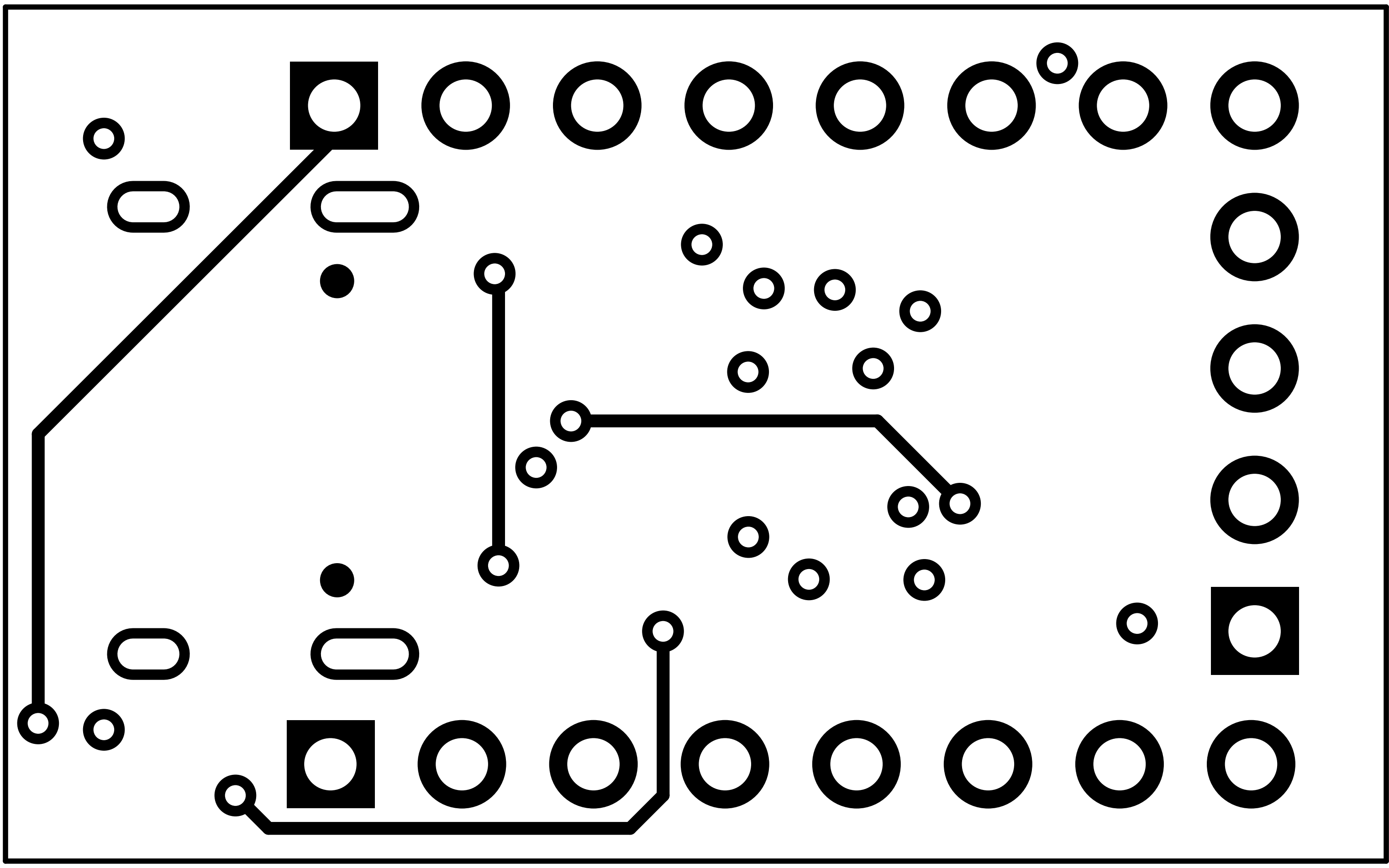
Sheet: /
File: Mirtillo_Pico.kicad_sch

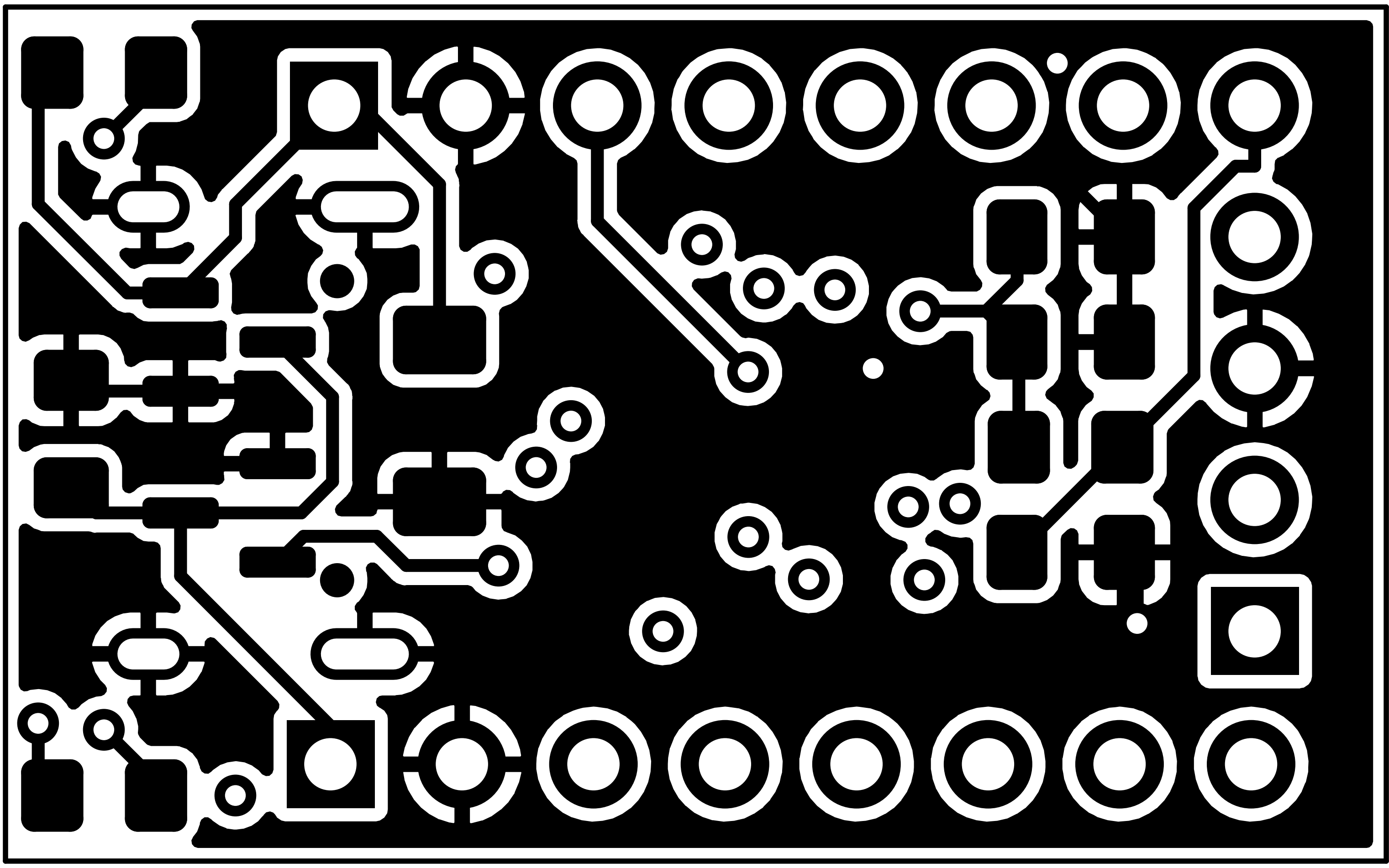
Title:

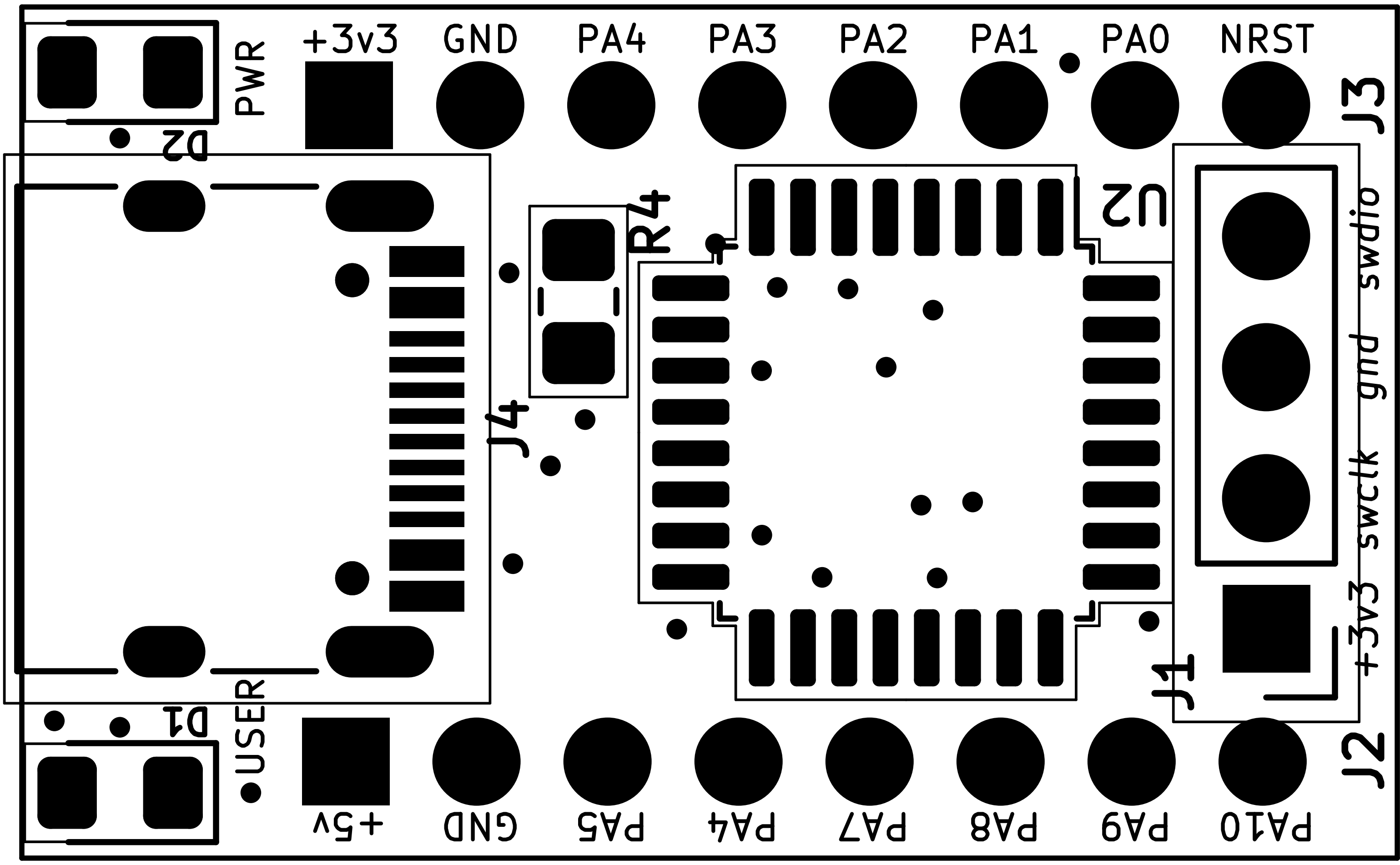
Size: A4 Date: Rev:
KiCad E.D.A. kicad (6.0.7) Id: 1/1

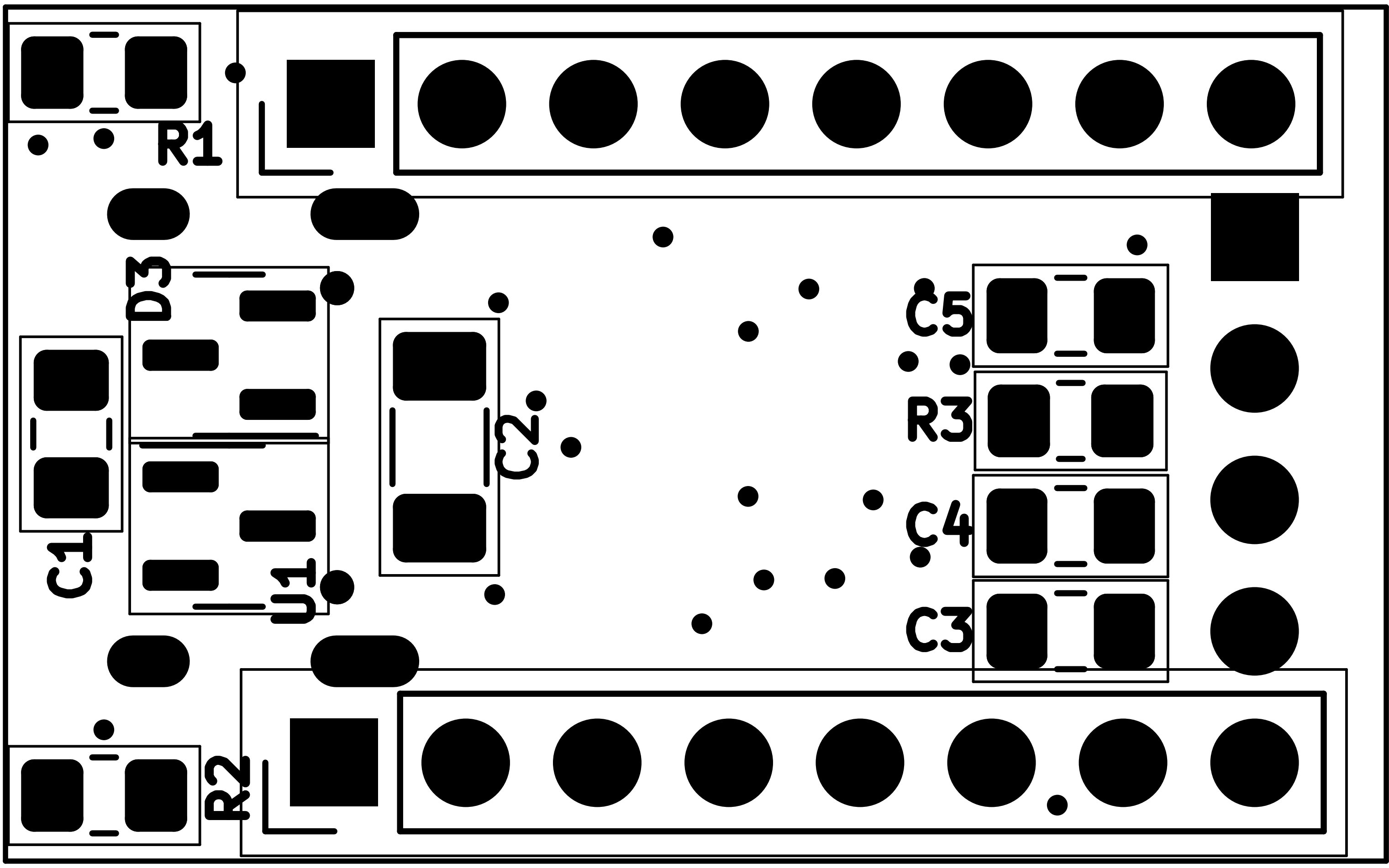









+3v3
GND
PA4
PA3
PA2
PA1
PA0
NRST
J3
PWR
D2
R4
U2
J4
swdio
gnd
swclk
+3v3
J1
J2
D1
USER
+5v
GND
PA5
PA4
PA7
PA8
PA9
PA10


R1
D3
C1
U1
C2
C5
R3
C4
C3
R2

C:\dirpers\Progetti x MCU\MIRTILLO-PICO\hw\Mirtillo_Pico\Mirtillo_Pico.kicad_sch

26/09/2022 11:27:08

Eeschema (6.0.7)

Component Count:18

Ref	Qnty	Value	Part	Datasheet	Description	Vendor
C1, C4, C5	3	100nF	Device:C	~	Unpolarized capacitor	
C2	1	47uF	Device:C	~	Unpolarized capacitor	
C3	1	4,7uF	Device:C	~	Unpolarized capacitor	
D1	1	LED Blue	Device:LED	~	Light emitting diode	
D2	1	LED Green	Device:LED	~	Light emitting diode	
D3	1	BAT54C	Diode:BAT54C	http://www.diodes.com/_files/datasheets/ds11005.pdf	dual schottky barrier diode, common cathode	
J1	1	SWD	Connector_Generic:Conn_01x04	~	Generic connector, single row, 01x04, script generated (kicad-library-utils/schlib/autogen/connector/)	
J2, J3	2	Conn_01x08	Connector_Generic:Conn_01x08	~	Generic connector, single row, 01x08, script generated (kicad-library-utils/schlib/autogen/connector/)	
J4	1	USB_C_Receptacle	Connector:USB_C_Receptacle	https://www.usb.org/sites/default/files/documents/usb_type-c.zip	USB Full-Featured Type-C Receptacle connector	
R1	1	1K	Device:R_US	~	Resistor, US symbol	
R2	1	470	Device:R_US	~	Resistor, US symbol	

R3	1	10K	Device:R_US	~	Resistor, US symbol
R4	1	56K	Device:R_US	~	Resistor, US symbol
U1	1	MCP1703A-3302_SOT23	Regulator_Linear:MCP1703A-3302_SOT23	http://ww1.microchip.com/downloads/en/DeviceDoc/20005122B.pdf	Low Quiescent Current LDO Regulator, 3.3V, 250mA, Vin<=16V, SOT-23
U2	1	STM32G0B1KCT6(N)	MPLv3.1-rescue:STM32G0B1KET6-MCU_ST_STM32G0-MPLv3-rescue-MPLv3.1-rescue		