Source: P_2040\PSE_RP2040\PSE_RP2040.kicad_sch

Date: #######

Tool: schema (6.0.4)

Generator: g\plugins/bom_csv_grouped_by_value_with_fp.py

Component Count: 126

Ref	Qnty	Value	Cmp name	Footprint	Description
C1,	1	0.1F	C_Polarized	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm	Polarized capacitor
C2, C5, C20, C21,	4	12p	С	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor
3, C6, C7, C8, C9, C10,					
C11, C13, C15, C16, C22,					
23, C25, C26, C27, C32,					
34,	17	100n	C	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor
4,	1	10u	C_Polarized	Capacitor_SMD:C_0805_2012Metric	Polarized capacitor
12, C14, C18, C29, C30,	5	2u2	С	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor
17,	1	1u	С	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor
19, C33,	2	470p	С	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor
24,	1	10u 16V	C_Polarized	Capacitor_SMD:C_0805_2012Metric	Polarized capacitor
28, C31,	2	100n 100v	С	Capacitor_SMD:C_0603_1608Metric	Unpolarized capacitor
235,	1	100u	C_Polarized	Capacitor_SMD:C_0805_2012Metric	Polarized capacitor
01,	1	BAT54C	BAT54C	Package_TO_SOT_SMD:SOT-23	dual schottky barrier diode, common cathode
)2, D3,	2	MB1S	D_Bridge_+-AA	Package_SO:SO-4_4.4x3.6mm_P2.54mm	Diode bridge, +ve/-ve/AC/AC
4,	1	LED	LED	LED_SMD:LED_0603_1608Metric	Light emitting diode
5, D8,	2	S1B	D	Diode_SMD:D_SMA	Diode
06, D9,	2	D_Schottky	D_Schottky	Diode_SMD:D_SMA	Schottky diode
					1500W unidirectional TRANSZORBÃ,®
07,	1	SMAJ56	1.5KExxA	Diode_SMD:D_SMA	Transient Voltage Suppressor, DO-201AE
E1,	1	SparkGap	SparkGap	PSE2021:SPARK_GAP_TRIANGLE	Spark gap
					Resettable fuse, polymeric
		Polyfuse_Small:			positive temperature coefficient,
1,	1	fino a 500ma	Polyfuse Small	Fuse:Fuse 1812 4532Metric	small symbol
1, H2, H3,	3	MountingHole	MountingHole	MountingHole:MountingHole 3mm	Mounting Hole without connection
, , ,				Package DFN QFN:HVQFN-24-1EP 4x4mm	
21,	1	LAN8742A-CZ	LAN8742A-CZ	P0.5mm EP2.5x2.5mm ThermalVias	
·					SAM-M8Q RF Receiver Galileo, GLONASS,
C2,	1	SAM-M8Q-0	SAM-M8Q-0	PSE2021:SAM-M8Q	GPS 1.575GHz, 1.602GHz -165dBm 400kbps
	1	USB B	USB B	Connector USB:USB B OST USB-B1HSxx Horizontal	USB Type B connector
•				Connector_USB:USB_Mini-B_	
2,	1	USB B Mini	USB B Mini	Wuerth 65100516121 Horizontal	USB Mini Type B connector
- - /	 		552_2		RJ connector, 8P8C
3,	1	8P8C LED	8P8C LED	PSE2021:RJ45_Amphenol_RJHSE-5081	(8 positions 8 connected), two LEDs, RJ45
	1 -		0.00_222		Generic connector, single row, 01x03,
					script generated (kicad-library-
4,	1	Conn 01x03	Conn 01x03	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mi	

					Generic screw terminal, single row, 01x02,
				TerminalBlock Phoenix:TerminalBlock Phoenix	script generated (kicad-library-
J5,	1	Screw Terminal 01x02	Screw Terminal 01x02	MKDS-1,5-2-5.08 1x02 P5.08mm Horizontal	utils/schlib/autogen/connector/)
	<u> </u>				Generic connector, single row, 01x04,
				Connector PinHeader 2.54mm:	script generated (kicad-library-
J6,	1	Conn 01x04 Female	Conn 01x04 Female	PinHeader_1x04_P2.54mm_Vertical	utils/schlib/autogen/connector/)
JP1,	1	SolderJumper 2 Bridged	SolderJumper 2 Bridged	Jumper:SolderJumper-2 P1.3mm Bridged Pad1.0x1.5mm	Solder Jumper, 2-pole, closed/bridged
L1,	1	200mA 1200hm	L	Inductor_SMD:L_0603_1608Metric	Inductor
L2,	1	25uH	L	Inductor SMD:L 0603 1608Metric	Inductor
L3,	1	22u	L	Inductor_SMD:L_Vishay_IFSC-1515AH_4x4x1.8mm	Inductor
Q2,	1	IRLML6402	Q PMOS GSD	Package TO SOT SMD:SOT-23	P-MOSFET transistor, gate/source/drain
R1, R11, R37,	3	1k	R	Resistor SMD:R 0603 1608Metric	Resistor
R2,	1	100	R	Resistor_SMD:R_0603_1608Metric	Resistor
R3,	1	R	R	Resistor SMD:R 0603 1608Metric	Resistor
R4, R5, R10, R14, R15,					
R17, R18, R19, R20, R21,					
R35,	11	10k	R	Resistor SMD:R 0603 1608Metric	Resistor
R6, R7,	2	270	R	Resistor SMD:R 0603 1608Metric	Resistor
R8, R9, R16,	3	33	R	Resistor_SMD:R_0603_1608Metric	Resistor
R12, R13, R33,	3	27	R	Resistor SMD:R 0603 1608Metric	Resistor
R22.	1	12k1	R	Resistor SMD:R 0603 1608Metric	Resistor
R23, R24, R25, R26,	4	49,9	R	Resistor SMD:R 0603 1608Metric	Resistor
R27,	1	47k	R	Resistor SMD:R 0603 1608Metric	Resistor
R28,	1	R4 no fit (o 10k)	R	Resistor SMD:R 0603 1608Metric	Resistor
R29, R31,	2	50k	R	Resistor SMD:R 0603 1608Metric	Resistor
R30,	1	178k	R	Resistor SMD:R 0603 1608Metric	Resistor
R32,	1	330	R	Resistor SMD:R 0603 1608Metric	Resistor
R34,	1	33k	R	Resistor SMD:R 0603 1608Metric	Resistor
R38, R39,	2	OR NF	R	Resistor_SMD:R_0603_1608Metric	Resistor
SW1, SW2,	2	SW Push	SW Push	Button Switch THT:SW PUSH 6mm	Push button switch, generic, two pins
	 			Transformer_SMD:Transformer_	and the second of the part of
T1,	1	WE749013011	749013011	Ethernet Wuerth 749013011A	
U1,	1	RP2040	RP2040	PSE2021:RP2040-QFN-56	
U2,	1	PCF8563T	PCF8563T	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Realtime Clock/Calendar I2C Interface, SOIC-8
02,				usuage_solosis s_sisk.iisiiiii_: 212711111	Very low capacitance ESD
U4,	1	USBLC6-4SC6	USBLC6-4SC6	Package TO SOT SMD:SOT-23-6	protection diode, 4 data-line, SOT-23-6
U5,	1	W25Q16JVUSSQ	W25Q16JVUXIQ	Package SO:SOIC-8 5.275x5.275mm P1.27mm	p. 5000.01. 5.000, 4 data iii., 501 25 0
U6,	1	PAM7Q	PAM7Q-gpsChip	PSE2021:PAM-7Q	+
U7,	1	TPS2375-1	TPS2375-1	Package SO:SOIC-8 5.275x5.275mm P1.27mm	IEEE802.3af PoE Controller, Auto-Retry
07,	-	11 32373-1	11 32373-1	Fackage_50.501C-0_5.275X5.275HHH_F1.27HHH	illeboz.sarrol controller, Auto-Netry
					Simple Switcher Buck Regulator, Vin=4-40V,
U8,	1	LMR16006YQ	LMR16006YQ	Package TO SOT SMD:SOT-23-6	lout=600mA, Adjustable output voltage, SOT-23-6 package
00,	+ -	LIVINTOOOTQ	LIVINIOUUTQ	Crystal:Crystal AT310 D3.0mm	Tout-oconin, Aujustable output voltage, 301-23-0 package
V1	1	Crystal GND3	Crystal GND3	L10.0mm_Horizontal_1EP_style1	Three pin crystal, GND on pin 2
Y1, Y2,	1 1	Crystal_GND3	Crystal_GND3	Crystal:Crystal SMD 3225-4Pin 3.2x2.5mm	Three pin crystal, GND on pin 3 Four pin crystal, GND on pins 2 and 4
Y3,	1	25MHz	Crystal_GND24 Crystal GND24	Crystal:Crystal_SMD_3225-4PIn_3.2x2.5mm Crystal:Crystal SMD 3225-4Pin 3.2x2.5mm	Four pin crystal, GND on pins 2 and 4 Four pin crystal, GND on pins 2 and 4
13,	1 1	ZOIVIEZ	CI YSTAI_GIND24	[CI YStal.CI YStal_SIVID_3225-4PIII_3.2X2.5IIIIII	Four pin crystal, GND on pins 2 and 4