

Source:	C:\Users\david\Desktop\proyectos_git\kicad_project\PCDB_project\PCDB_project.sch								
Date:	07/11/2022 19:54:45								
Tool:	Eeschema (5.1.9)-1								
Generator:	C:\Program Files\KiCad\bin\scripting\plugins\bom_csv_grouped_by_value.py								
Component Count:	59								
Individual Components:									
Item	Qty	Reference(s)	Value	LibPart	Footprint	Datasheet	Manufacturer	Name	anufacturer
		C1	10uF	Device:CP	Capacitor_SMD:CP_Elec_6.3x5.8	~	Kemet	EDK106M063A9GAA	
		C2	10uF	Device:CP	Capacitor_SMD:CP_Elec_6.3x5.8	~	Kemet	EDK106M063A9GAA	
		C3	10uF	Device:CP	Capacitor_SMD:CP_Elec_6.3x5.8	~	Kemet	EDK106M063A9GAA	
		C4	10uF	Device:CP	Capacitor_SMD:CP_Elec_6.3x5.8	~	Kemet	EDK106M063A9GAA	
		C5	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C6	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C7	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C8	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C9	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C10	20pF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C11	20pF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C12	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C13	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		C14	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
		D1	BAT60J	Device:D_ALT	Diode_SMD:D_SOD-323	~	ST	BAT60J	
		D2	BAT60J	Device:D_ALT	Diode_SMD:D_SOD-323	~	ST	BAT60J	
		F1	250mA	Device:Polyfuse	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~	TE	RXEFO25	
		J1	Power	Connector_Generic:Conn_01x02	PCDB_project:Power	~		20.101M/2	IMO
		J2	22-05-7025	Connector_Generic:Conn_01x02	PCDB_project:IO2	~	Molex	22-05-7025	
		J3	22-05-7025	Connector_Generic:Conn_01x02	PCDB_project:IO2	~	Molex	22-05-7025	
		J4	22-05-7025	Connector_Generic:Conn_01x02	PCDB_project:IO2	~	Molex	22-05-7025	
		J5	22-05-7025	Connector_Generic:Conn_01x02	PCDB_project:IO2	~	Molex	22-05-7025	
		J6	Comm	Connector_Generic:Conn_01x03	PCDB_project:IO3	~	Molex	22-05-7025	
		J7	USB_B_Mini	Connector:USB_B_Mini	Connector_USB:USB_Mini-B_Wuerth_65100516121_Horizontal	~	Molex	67503-1020	
		J8	Debug	Connector_Generic:Conn_01x06	PCDB_project:Debug	~	Amphenol	T821106A1S100CEU	
		L1	5.6uH	Device:L	PCDB_project:tck141	~	Traco	tck141	
		LD1	Red	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0100	
		LD2	YELLOW	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0098	
		LD3	Green	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0097	
		LD4	Yellow	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0098	
		LD5	Yellow	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0098	
		LD6	Red	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0100	
		M1	BSS84	Device:Q_PMOS_GSD	Package_TO_SOT_SMD:SOT-23	~	ON	BSS84	
		M2	BSS84	Device:Q_PMOS_GSD	Package_TO_SOT_SMD:SOT-23	~	ON	BSS84	
		MOV1	MCFT000215	Device:Varistor	Varistor:RV_Disc_D7mm_W3.4mm_P5mm	~	multicomp	MCFT000215	
		MOV2	MCFT000215	Device:Varistor	Varistor:RV_Disc_D7mm_W3.4mm_P5mm	~	multiomp	MCFT000215	
		MOV3	MCFT000215	Device:Varistor	Varistor:RV_Disc_D7mm_W3.4mm_P5mm	~	multiomp	MCFT000215	
		MOV4	MCFT000215	Device:Varistor	Varistor:RV_Disc_D7mm_W3.4mm_P5mm	~	multicomp	MCFT000215	
		MOV5	MCFT000215	Device:Varistor	Varistor:RV_Disc_D7mm_W3.4mm_P5mm	~	multicomp	MCFT000215	
		MOV6	MCFT000215	Device:Varistor	Varistor:RV_Disc_D7mm_W3.4mm_P5mm	~	multicomp	MCFT000215	

		R1	330R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
		R2	100k	Device:R	Resistor_SMD:R_0805_2012Metric	~			
		R3	4k7	Device:R	Resistor_SMD:R_0805_2012Metric	~			
		R4	330R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
		R5	4k7	Device:R	Resistor_SMD:R_0805_2012Metric	~			
		R6	330R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
		R7	120R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
		R8	330R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
		R9	330R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
		R10	330R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
		R11	100k	Device:R	Resistor_SMD:R_0805_2012Metric	~			
		SW1	Reset	Switch:SW_Push	PCDB_project:B3F-4000	~	Omron	B3F-400	
		U1	TSR_1-2450	Regulator_Switching:TSR_1-2450	Converter_DCDC:Converter_DCDC_TRACO_TSR-1_THT	http://www.tracop	Traco	TSR_1-2450	
		U2	UA78M33	Regulator_Linear:uA7805	Package_TO_SOT_SMD:SOT-223-3_TabPin2	http://www.ti.com	Texas Instrument	UA78M33	
		U3	STM32F103CBT	MCU_ST_STM32F1:STM32F103CBT	Package_QFP:LQFP-48_7x7mm_P0.5mm	http://www.st.com	ST	STM32F103CBT6	
		U4	DS1822-PAR	Sensor_Temperature:DS1822-PAR	Package_TO_SOT_THT:TO-92_Inline_Wide	http://datasheets	Maxim	DS1822-PAR	
		U5	MAX3486	Interface_UART:MAX3486	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	https://datasheet	Maxim	MAX3486	
		U6	MC74LCX0	74xx:74LS06	Package_SO:SOIC-14_3.9x8.7mm_P1.27mm	http://www.ti.com	ON	MC74LCX07	
		X1	8MHz	Device:Crystal	Crystal:Crystal_HC18-U_Vertical	~	Mercury	HUS-8	
Collated Components:									
Item	Qty	Reference(s)	Value	LibPart	Footprint	Datasheet	Manufacturer	Name	anufacturer
	1	4 C1, C2, C3, C4	10uF	Device:CP	Capacitor_SMD:CP_Elec_6.3x5.8	~	Kemet	EDK106M063A9GAA	
	2	8 C5, C6, C7, C8, C9	100nF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
	3	2 C10, C11	20pF	Device:C	Capacitor_SMD:C_0805_2012Metric	~			
	4	2 D1, D2	BAT60J	Device:D_ALT	Diode_SMD:D_SOD-323	~	ST	BAT60J	
	5	1 F1	250mA	Device:Polyfuse	Resistor_THT:R_Axial_DIN0204_L3.6mm_D1.6mm_P5.08mm_Horizontal	~	TE	RXEF025	
	6	1 J1	Power	Connector_Generic:Conn_01x02	PCDB_project:Power	~		20.101M/2	IMO
	7	4 J2, J3, J4, J5	22-05-7025	Connector_Generic:Conn_01x02	PCDB_project:IO2	~	Molex	22-05-7025	
	8	1 J6	Comm	Connector_Generic:Conn_01x03	PCDB_project:IO3	~	Molex	22-05-7025	
	9	1 J7	USB_B_Mini	Connector:USB_B_Mini	Connector_USB:USB_Mini-B_Wuerth_65100516121_Horizontal	~	Molex	67503-1020	
	10	1 J8	Debug	Connector_Generic:Conn_01x06	PCDB_project:Debug	~	Amphenol	T821106A1S100CEU	
	11	1 L1	5.6uH	Device:L	PCDB_project:tck141	~	Traco	tck141	
	12	2 LD1, LD6	Red	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0100	
	13	1 LD2	YELLOW	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0098	
	14	1 LD3	Green	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0097	
	15	2 LD4, LD5	Yellow	Device:LED_ALT	LED_THT:LED_D5.0mm	~	multicomp	703-0098	
	16	2 M1, M2	BSS84	Device:Q_PMOS_GSD	Package_TO_SOT_SMD:SOT-23	~	ON	BSS84	
	17	6 MOV1, MOV2, MOV3, MOV4, MOV5, MOV6, MOV7, MOV8, MOV9, MOV10, MOV11, MOV12, MOV13, MOV14, MOV15, MOV16, MOV17, MOV18, MOV19, MOV20, MOV21, MOV22, MOV23, MOV24, MOV25, MOV26, MOV27, MOV28, MOV29, MOV30, MOV31, MOV32, MOV33, MOV34, MOV35, MOV36, MOV37, MOV38, MOV39, MOV40, MOV41, MOV42, MOV43, MOV44, MOV45, MOV46, MOV47, MOV48, MOV49, MOV50, MOV51, MOV52, MOV53, MOV54, MOV55, MOV56, MOV57, MOV58, MOV59, MOV60, MOV61, MOV62, MOV63, MOV64, MOV65, MOV66, MOV67, MOV68, MOV69, MOV70, MOV71, MOV72, MOV73, MOV74, MOV75, MOV76, MOV77, MOV78, MOV79, MOV80, MOV81, MOV82, MOV83, MOV84, MOV85, MOV86, MOV87, MOV88, MOV89, MOV90, MOV91, MOV92, MOV93, MOV94, MOV95, MOV96, MOV97, MOV98, MOV99, MOV100	MCFT000215	Device:Varistor	Varistor:RV_Disc_D7mm_W3.4mm_P5mm	~	multicomp	MCFT000215	
	18	6 R1, R4, R6, R8, R10, R12, R14, R16, R18, R20, R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R80, R82, R84, R86, R88, R90, R92, R94, R96, R98, R100	330R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
	19	2 R2, R11	100k	Device:R	Resistor_SMD:R_0805_2012Metric	~			
	20	2 R3, R5	4k7	Device:R	Resistor_SMD:R_0805_2012Metric	~			
	21	1 R7	120R	Device:R	Resistor_SMD:R_1206_3216Metric	~			
	22	1 SW1	Reset	Switch:SW_Push	PCDB_project:B3F-4000	~	Omron	B3F-400	
	23	1 U1	TSR_1-2450	Regulator_Switching:TSR_1-2450	Converter_DCDC:Converter_DCDC_TRACO_TSR-1_THT	http://www.tracop	Traco	TSR_1-2450	
	24	1 U2	UA78M33	Regulator_Linear:uA7805	Package_TO_SOT_SMD:SOT-223-3_TabPin2	http://www.ti.com	Texas Instrument	UA78M33	

25	1	U3	STM32F103CBT	MCU_ST_STM32F1:STM32F103CBT	Package_QFP:LQFP-48_7x7mm_P0.5mm	http://www.st.com ST	STM32F103CBT6	
26	1	U4	DS1822-PAR	Sensor_Temperature:DS1822-PAR	Package_TO_SOT_THT:TO-92_Inline_Wide	http://datasheets Maxim	DS1822-PAR	
27	1	U5	MAX3486	Interface_UART:MAX3486	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	https://datasheet Maxim	MAX3486	
28	1	U6	MC74LCX0	74xx:74LS06	Package_SO:SOIC-14_3.9x8.7mm_P1.27mm	http://www.ti.com ON	MC74LCX07	
29	1	X1	8MHz	Device:Crystal	Crystal:Crystal_HC18-U_Vertical	~ Mercury	HUS-8	