

















Designator	Comment	Description	Footprint	Manufacturer	Manufacturer Part	Part Number	Quantity	Supplier	Supplier part	2nd source	2nd source part	Value
A1	2450AT18B100	2.45 GHz chip antenna		Johanson	Number 2450AT18B100	Johanson 2450AT18B100	1		number	Supplier	number	2450AT18B100
		·	00	Technology								
C1, C2, C16, C17	12pF 0.8pF		0402 0402			C0402-12p C0402-0.8p	4					12pF 0.8pF
C3 C4	2.2pF		0402			C0402-0.8p	1					2.2pF
C5, C7, C8, C12, C21, C22, C29, C31, C34	100nF	Capacitor, X7R, ±10%	0402			C0402-2.2p	ç	,				100nF
C6	4.7μF	Capacitor, X7R, ±10%, 6.3V	0603	Samsung	CL10B475KQ8NQN	C0603-4µ7-6.3V-X7R	1	Digi-Key	1276-2087-1-ND			4.7μF
C9, C10, C13	N.C.	Not mounted	0402			C0402-N.C.	3					N.C.
C11	100pF	Capacitor, NPO, ±5%	0402			C0402-100p	1					100pF
C14, C15, C35, C41	1.0μF	Capacitor, X7R, ±10%	0603			C0603-1µ0	4					1.0μF
C18, C19, C20	4.7μF	Capacitor, X5R, ±10%	0603			C0603-4μ7	3	3				4.7μF
C23, C24, C25, C26	100nF	X7R 50V 5%					4					
C28	10nF		0402			C0402-10n	1					10nF
C30, C33, C36	10μF	Capacitor, X5R, ±20%	0603			C0603-10μ	3					10μF
D1, D2, D3, D4, D5, D6, D7,	SMD LED Red	SMD					1					
D8, D9, D10, D11, D12, D13,	APA 102 2020	2x2mm SMD RGB Addresserbar LED					16	i.				
D14, D15, D16	DN 4EC 400ECT					DN AFC ADDECT						
D17	PMEG4005CT	Ultra low capacitance double				PMEG4005CT	1	+	 	 	+	
D18	PRTR5V0U2X	rail-to-rail ESD protection diode	SOT-143B	NXP	PRTR5V0U2X	PRTR5V0U2X	1	Digi-Key	568-4140-1-ND	Farnell	152-4157	PRTR5V0U2X
FB1, FB2	120R/0.55A	Ferrite Bead, 120 Ohm @ 100MHz, 500mA, 250 mOhm Max	0402	Murata	BLM15AG121SN1D	FB0402-120R@100M-500mA	2	Digi-Key	490-1005-1-ND	Farnell	151-5760	120R/0.55A
J1	USB_TYPE_C	TH and SMD					1					
J2	HDR-3, 1mm	1.0mm pitch connector side entry SMD	SM03B- SRSS-TB	JST	SM03B-SRSS- TB(LF)(SN)	SM03B-SRSS-TB	1					HDR-3, 1mm
J3	Pin Header 2x5, 1.27mm	Pin Header 2x5, 1.27mm (50mil), SMD, Keying Shroud	HDR_2x5- SMD- 1.27mm	W-CON	3132- 10MS0BK00R1	Pin Header 2x5 SMD, 1.27mm, KS	1	Cabcon	3132- 10MS0BK00R1	Samtec	FTSH-105-01-F-DV K	Pin Header 2x5, 1.27mm
L1	3.3nH	Inductor, 190mA, ±0.1nH	0402	Murata	LQP15MN3N3B02 D	L0402-3n3	1	Digi-Key	490-1130-1-ND			3.3nH
L2, L4	10μΗ	Inductor, 80mA, ±10%	0603	Taiyo Yuden	LBMF1608T100K	L0603-10μ	2	Digi-Key	587-1714-1-ND	Farnell	178-6105	10μH
L3	15nH	Inductor, 320mA, ±5%	0402	Taiyo Yuden	HK100515NJ-T	L0402-15n	1	Digi-Key	587-1521-1-ND	Farnell	658-1328	15nH
L5	3.9nH	Inductor, 170mA, ±0.1nH	0402	Murata	LQP15MN3N9B02 D	L0402-3n9	1					3.9nH
L6	N.C.	Not mounted	0402			L0402-N.C.	1					N.C.
Q1	DMC2400UV	Dual N & P Ch MOFET, 1.03A/0.7A, 480mOhm,	SOT-563	Diodes Incorporated	DMC2400UV	DMC2400UV	1					DMC2400UV
		450mW		meorporated								
	1k	0.1W 1% Thick film resistor	0400			D0400 40I	1					401
	10k 27k		0402 0402			R0402-10k R0402-27k						10k 27k
	15k		0402			R0402-27k	1					15k
		THERMISTOR 10K OHM NTC			NCP15XH103F03R		'					
R5	10k	0402 SMD	0402	Murata	C	NCP15XH103F03RC	1					10k
R6, R7	1M0	Resistor, ±1%, 0.063W	0402		-	R0402-1M0	2					1M0
R8	1M5		0402			R0402-1M5	1					1M5
R9	180k		0402			R0402-180k	1					180k
R11, R12	39R		0402			R0402-39R	2	Farnell	173-8831			39R
R13	56k	0.1W 1% Thick film resistor					1	1	ļ			ļ
SWO	Switch	SMD slide Switch (ON-ON)	Switch- Slide-RA-J- Lead-DPDT- 8.5x3.5mm	C&K Components	JS202011JAQN	Switch-Slide-RA-J-Lead- DPDT-8.5x3.5mm_C&K	1					Switch
SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16	Kailh SW	Kailh Mechanical keyboard switch					16	,				
U1	nRF52840-QIAA	system-on-chip	AQFN-73	Nordic Semiconductor	nRF52840- QIAAAA	nRF52840-QIAAAA	1	Nordic Semiconductor	nRF52840- QIAAAA			nRF52840-QIAA
U2	XC6804A4E1	One Cell Li-ion/Li-polymer Linear Charger IC with Battery Temperature Detection	USP-6EL	Torex Semiconductor	XC6804A4E14R-G	XC6804A4E14R-G	1					XC6804A4E1
U3	TCK106AF	1.0 A Load Switch IC with Slew Rate Control Driver in Small Package	SOT-25	Toshiba	TCK106AF,LF	TCK106AF,LF	1					TCK106AF
U4	TXS0102DCUR	IC VOLT-LEVEL TRANSLATOR 8-US8	8-VFSOP	Texas Instruments	TXS0102DCUR	TXS0102DCUR	1					TXS0102DCUR
X1	32MHz	XTAL SMD 2016, 32MHz, CI=8pF, ToI: ±10ppm, Stab: ±10ppm	XTAL_2016	Epson Toyocom	Q22FA12800025	XTAL_SMD2016_32MHz_8pF _Epson	1	Farnell	171-2806			32MHz
X2	32.768kHz	XTAL SMD 3215, 32.768kHz, 9pF, ±20ppm, -40°C - 125°C	XTAL_3215	Kyocera	ST3215SB32768E0 HSZB1	XTAL_SMD3215_32.768kHz_ 9pF_Kyocera_HT	1	Digi-Key	1253-1402-1-ND			32.768kHz