Designator	Description	Comment	Footprint	Part_Number	Supplier Link	Price	Price_50	Quantity	Manufacturer
U1	Silicon MR	8MB Wi-Fi SIB	Zone_Tri	88L38-WFST-G01	https://www.digikey.com/product-detail/en/marvell-semiconductor/88L38-wfst-g01/1916-1023-1-ND/7824...0	38.19			Digi International
U3	High-Performance, Ultra-Low-Power Cortex®-M0+ Based MCU	32 bit MCU	LQFP-64	NAC1250-MHPM	https://www.digikey.com/product-detail/en/nexperia-usa-inc/NAC1250-MHPM/2156-NAC1250-MHPM-ND/8...0	10.420	10.4200		Texas Instruments
U2	Linear Voltage Regulator IC Positive Fixed 1 Output 3.6V 200mA SOT-23-5	TLV70036QDDCRQ1	SOT-23-5	TLV70036QDDCRQ1	https://www.digikey.com/product-detail/en/texas-instruments/TLV70036QDDCRQ1/296-...0				Texas Instruments
U3	Buffer Non-Inverting Open-drain Outputs	Buffer	W-PSOP - 5 - SC32 (5 PCBO-100)	SN74LVC3G07QDCKRQ1	https://www.digikey.com/product-detail/en/texas-instruments/SN74LVC3G07QDCKRQ1/296-...0	0.53	0.511		Texas Instruments
U4	USB Ohms resistor 0.5W	0603 0805 2010R 5% 0.5W	0603 - 0805 - 2010	RC0201-0805-2010R	https://www.digikey.com/product-detail/en/panasonic-electronic-components/ERJ-P06F1000V/P10.0KCT-ND/4...0	0.68			Panasonic Inc
U16	USB Ohms resistor 0.5W	0603 0805 2010R 5% 0.5W	0603	0603CBCP-2010	https://www.digikey.com/product-detail/en/bourns-inc/CR2010-J/W-R10ETR/1...0	0.15			Bourns Semiconductors
R5, R9, R10, R11, R14	USB Ohms 0.25W Resistor	0603 0805 2010R 5% 0.25W	0603	0603CBCP-2010	https://www.digikey.com/product-detail/en/bourns-inc/CR2010-J/W-R10ETR/1...0	0.15	[BoxPacker]	0.12	Bourns Semiconductors
R6, R8	USB Ohms resistor 0.5W	0603 0805 1005R 5% 0.5W	0603	0603CBCP-1005	https://www.digikey.com/product-detail/en/bourns-inc/CR2010-J/W-R10ETR/1...0	0.15	0.12		Bourns Semiconductors
R1, R2, R3, R4	USB uOhms resistor	0603 0805 100k 5% 0.1W	0603	0603CBCP-100K	https://www.digikey.com/product-detail/en/bourns-inc/CR1608-J/W-R100ETR/1...0	0.15	0.033		Bourns
R12, R13	MOOhms 0.25W Resistor	0603 0805 80R 1% 0.25W	0603	0603CBCP-80R0	https://www.digikey.com/product-detail/en/bourns-inc/CR2010-J/W-R080ETR/1...0	0.15			Bourns Semiconductors
R7	10 kOhms resistor	0603 0805 10k 5% 0.1W	0603	0603CBCP-10K	https://www.digikey.com/product-detail/en/bourns-inc/CR1608-J/W-R100ETR/1...0	0.15	0.033		Bourns
R19	10 kOhms 1% 0.25 Resistor	0603 0805 10k 1% 0.25W	0603	0201-1W/F-1003V	https://www.digikey.com/product-detail/en/panasonic-electronic-components/ERJ-1WF1003V/P10.0KCT-ND/4...0	0.686			Panasonic Electronic Components
R28	2.7 kOhms resistor	0603 0805 2.7k 5% 0.1W	0603	CR1/4W/5M/5%	https://www.digikey.com/product-detail/en/panasonic-electronic-components/ERJ-3GEYJ272V/P2.70KCT-ND/1...0	0.15	0.036		Bourns
R27	0 Ohm Resistor	0603 0805 0R	0603	CR1/4W/5M/5%	https://www.digikey.com/product-detail/en/panasonic-electronic-components/ERJ-3GEY0R00V/P0.0KCT-ND/1...0	0.11			Vishay Dale
U1	5V DCDC	5V DCDC	R-78E-0.5	R-78E05-0.5	https://www.digikey.com/product-detail/en/c-ch-rosenberger/R-78E0-0.5/945-1...0	0.04	0.072		Recom
U6	USB bus ESD Protection diodes	ESD Protection	SOT563	PESD1CAN-UX	https://www.digikey.com/product-detail/en/nexperia-usa-inc/PESD1CAN-UX/1727-...0	0.61	0.437		NXP
U	Crystal Oscillator 32.3MHz	32.8304Hz	3225DZ2L-A	3225DZ2L-A-32.8304	https://www.digikey.com/product-detail/en/abracon-llc/ABLNX3-32.8304-UK-CD-1...0	0.95	0.796		ABCS
U2	Linear Voltage Regulator IC Positive Fixed 1 Output 3.3V 200mA DFN6-1	TLV1 LDO	DFN6-1	NCV8663DTBR6G	https://www.digikey.com/product-detail/en/onsemi/NCV8663DTBR6G/NCV8663DTBR6GOSCT-ND/...0	0.33	0.264		On Semiconductor
D7	Yellow LED 1206	Yellow	LED1206	1-TF-C-1606/3/T	https://www.digikey.com/product-detail/en/CT/C1206/3/T/1606/3/T/1-1-1606/3/T/1-1-1606/3/T/1-1-