

IoT Development Kit - BLE and Sensor Board

150-00001-C1 Revision: C2

Bill Of Materials

Quantity	Reference	Description	Manufacturer	Manufacturer Part Num
1	U3	IC - 0.6A SYNCH BUCK REGULATOR WITH INTEGR	Altera	EP5358HUI
1	U4	IC - 3-AXIS ACCELEROMETER, 12-BIT RESOLUTUI	Analog Devices	ADXL362BCCZ-R2
1	U5	IC - BLUETOOTH LOW ENERGY SIP MODULE, 48-L	Broadcom	BCM20737S
1	U2	IC - 4MBIT (512K x 8) SRAM, 2.2V-3.6V, 36-VFBG	Cypress	CY62148EV30LL-45BVXI
1	U8	IC - DUAL 4A IDEAL DIODES WITH ADJ CURRENT	Linear Technology	LTC4415EDHC#PBF
1	U10	OSC - ULTRA-LOW PWR 32.768KHZ OSCILLATOR,	Si Time	SiT1532AI-J4-DCC-32.768
1	U6	IC - 32 BIT MCU, 512KB FLASH, 128KB RAM, 2.0	Silicon Labs	EFM32GG395F512-BGA120
1	U7	IC - I2C PROXIMITY/UV/AMBIENT LIGHT SENSOR,	Silicon Labs	SI1147-A10-GMR
1	U1	IC - I2C HUMIDITY AND TEMPERATURE SENSOR,	Silicon Labs	SI7020-A10-GM1
1	D2	DIODE - TVS DIODE, HIGH SPEED SERIES, 2-CHAN	Wurth Elektronik	82400152
4	MH1,MH2,MH3,MH4	HARDWARE - POLYAMIDE SPACER, 2MM PCB DIA	Wurth Elektronik	709651000
2	L1,L2	FERRITE BEAD - 180-OHM@100MHZ, 0.4A, DCR	Wurth Elektronik	7427927218
1	D1	LED - GREEN LED, VF 2.0V, IF 30mA, SMD 0603	Wurth Elektronik	150060VS75000
1	D4	LED - LED CHIPLED 645NM SUPER RED DIFF, VF=1	Wurth Elektronik	150080SS75000
1	Y2	CRYSTAL - 48MHZ, CL 10PF, ESR MAX 60-OHM, -4	Abrakon Corporation	ABM11-48.000MHZ-D2X
1	D3	LED - LED IR, TOP VIEW, FLAT CLEAR, SMD 1206	Everlight Electronics Co Ltd	IR11-21C/TR8
1	SW1	IC - SWITCH DUAL-SPDT, RON 0.35-OHM, VCC 2.3	Fairchild Semiconductor	FSA2267AL10X
1	SW2	IC - SWITCH SPDT, RON 0.40-OHM, VCC 1.65V-4.3	Fairchild Semiconductor	FSA5157L6X
1	J1	CONN - MICRO USB TYP B RECEPTACLE, RIGHT A	Hirose Electric Co.	ZX62D-B-5PA8
1	ORING1	HARDWARE - SQUARE BUNA-N O-RING, ID 1/8",	McMASTER-CARR	4061T111
1	U9	IC - FLASH, 16MBIT, 75MHZ, X1/X2, 2.3V-3.6V, S	Micron	M25PX16-VMN6P
1	J2	CONN - 0.5MM PITCH SLIM STACK, 30 POS PLUG	Molex	501920-3001
2	C26,C34	CAP - CER 16PF, 50V, 5%, C0G, 0402	Murata	GRM1555C1H160JA01D
17	C2,C4,C6,C7,C8,C11,C12,C13,C19,C21,C22,C23,C24,C25,C27,C28,C29	CAP - CER, 0.1UF, 25V, 10%, X5R, 0402	Murata	GRM155R61E104KA87D

1	S1	SWITCH - PUSHBUTTON, SPST-NO, SMD 3MM X 2	Omron	B3U-1000P
1	S2	SWITCH - PUSHBUTTON, SPST-NO, RIGHT ANGLE	Omron	B3U-3000P
2	D5,D6	IR EMITTER, HALF ANGLE +/-22 DEGREES, WAVELENGTH	Osram	SFH 4056-NQ
1	R11	RES - 0.0 OHM, 1/10W, JUMP, SMD 0402	Panasonic	ERJ-2GE0R00X
14	R1,R4,R10,R14,R16,R18,R19,R20,R21,R23,R3	RES - 10.0K,1.0%,1/10W, 0402	Panasonic	ERJ-2RKF1002X
3	R3,R27,R28	RES - 133K OHM, 1/10W, 1%, 0402 SMD	Panasonic	ERJ-2RKF1333X
2	R6,R8	RES - 15 OHM, 1/10W, 1%, 0402 SMD	Panasonic	ERJ-2RKF15R0X
1	R31	RES - 30 OHM, 1/10W, 1%, SMD 0402	Panasonic	ERJ-2RKF30R0X
1	R22	RES - 39 OHM, 1/10W, 1%, 0402 SMD	Panasonic	ERJ-2RKF39R0X
4	R5,R7,R13,R15	RES 4.7K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF4701X
1	R2	RES - 845 OHM, 1/10W, 1%, 0402 SMD	Panasonic	ERJ-2RKF8450X
2	R34,R39	RES - 1 OHM, 1/4W, 5%, 0603 SMD	Rohm	ESR03EZPJ1R0
1	D7	DIODE - SCHOTTKY, VR=5V, IF=0.01A,VF=0.29V, B	Rohm	RB861YT2R
1	R37	RES - 47K OHM, 1/16W, 1%, 0402 SMD	Rohm Semiconductor	MCR01MRTF4702
2	R24,R25	RES - 620K OHM, 1/16W, 1%, 0402 SMD	Rohm Semiconductor	MCR01MRTF6203
2	C5,C14	CAP - CER 4.7UF, 25V, 10%, X5R, 0603	Samsung Electro-Mechanics Ar	CL10A475KA8NQNC
2	C17,C30	CAP - CER, 1UF, 16V, 10%, X5R, 0402	TDK Corporation	C1005X5R1C105K050BC
5	C9,C10,C31,C32,C35	CAP - CER, 0.01UF, 25V, 10%, X5R, 0402	TDK Corporation	C1005X5R1E103K050BA
4	C1,C3,C18,C33	CAP - CER, 10UF, 25V, 20%, X5R, 0603	TDK Corporation	C1608X5R1E106M080AC
1	C20	CAP - CER 33UF, 10V, 20%, X5R, 0805	TDK Corporation	C2012X5R1A336M125AC
1	Q1	MOSFET - N-CHANNEL, VDS=12V, RDS=0.022@VGS	Vishay	SiB404DK