



Bill of Materials - Azure Sphere MT3620 Starter Kit

Source Data File: [AES-MS-MT3620-SK-G.PrjPcb](#)
 Project: [AES-MS-MT3620-SK-G.PrjPcb](#)
 Variant: [Variant of AES-MS-MT3620-SK-G](#)
 Build Quantity: **25**
 Report Date: **2019-03-06**
 Report Time: **1:17:05 PM**



Index	Designator	Quantity	Fitted	Comment	Description	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Qty per Build
1	C1, C2, C3, C4, C5, C11, C12, C13, C14, C19, C20, C21	12	Fitted	0.1uF	CAP CER 0.1UF 25V 10% X5R 0402	Samsung	CL05A104KA5NNNC	Digi-Key	1276-1043-1-ND	300
2	C6	1	Fitted	10000pF	CAP CER 10000PF 50V 10% X7R 0402	TDK	C1005X7R1H103K050BB	Digi-Key	445-6850-2-ND	25
3	C7, C23, C24	3	Fitted	1.0uF	CAP CER 1UF 35V 10% X5R 0402	TDK Corporation	C1005X5R1V105K050BC	Digi-Key	445-9073-2-ND	75
4	C8, C10, C22	3	Fitted	22uF	CAP CER 22UF 16V X5R 0805	Samsung	CL21A226MOCLRNC	Digi-Key	1276-6780-1-ND	75
5	C9	1	Fitted	33pF	CAP CER 33PF 50V 5% NPO 0402	TDK	C1005C0G1H330J050BA	Digi-Key	445-1241-2-ND	25
6	C15	1	Fitted	4.7uF	CAP CER 4.7UF 10V 10% X5R 0402	Samsung	CL05A475K05NRNC	Digi-Key	1276-1481-1-ND	25
7	C16, C17	2	Fitted	10pF	CAP CER 10PF 50V NPO 0402	TDK Corporation	C1005C0G1H100D050BA	Digi-Key	445-1235-2-ND	50
8	C18	1	Fitted	22pF	CAP CER 22PF 50V 5% NPO 0402	TDK	C1005C0G1H220J050BA	Digi-Key	445-1239-1-ND	25
9	J1, J2, J3, J4	4	Fitted	SSW-108-01-F-S	CONN RCPT .100" 8POS SINGL GOLD	Samtec	SSW-108-01-F-S	Digi-Key	SAM11943-ND	100
10	J5	1	Fitted	1125S-4P	CONN HEADER 4POS 2mm VERT	NS-TECH	1125S-4P	Digi-Key	110990046-ND	25
11	J6, J9	2	Fitted	TMM-103-01-G-S	CONN HEADER 3POS SINGL 2MM T/H	Samtec	TMM-103-01-G-S	Digi-Key	SAM1174-03-ND	50
12	J12	1	Fitted	47589-0001	CONN RCPT MICRO USB AB R/A SMD	Molex	47589-0001	Digi-Key	WM17143CT-ND	25
13	JP1, JP2	2	Fitted	SHUNT 2POS 2mm	CONN SHUNT 2POS OPEN 2MM	Samtec	2SN-BK-G	Digi-Key	SAM8748-ND	50
14	L1, L2	2	Fitted	120 Ohm	FERRITE BEAD 120 OHM 0402 1LN	Murata	BLM15PD121SN1D	Digi-Key	490-5203-1-ND	50
15	LED1	1	Fitted	Green	LED GREEN 35MCD 0603 SMD	Vishay Lite-On	LTST-C191KGKT	Digi-Key	160-1446-1-ND	25
16	LED2, LED3, LED4	3	Fitted	Yellow	LED YELLOW CLEAR 26MCD CHIP SMD	Vishay Lite-On	LTST-C193KSKT-5A	Digi-Key	160-1831-1-ND	75
17	LED5	1	Fitted	APTF1616LSEEZGQBKC	LED RGB 621NM 525NM 465NM 0606	Kingbright	APTF1616LSEEZGQBKC	Digi-Key	754-1972-1-ND	25
18	MODULE1	1	Fitted	AES-MS-MT3620-M-G	WIFI Azure Sphere Module 22x33	AVNET	AES-MS-MT3620-M-G			25
19	PCB1	1	Fitted	AES-MS-MT3620-SK-G-PCB	PCB - FR4-High Tem, 170C Tg, 4 Layer, ENIG, 1.6mm, RoHS					25
20	Q2	1	Fitted	SI1317DL-T1-GE3	MOSFET P-CH 20V 1.4A SC70	Vishay Siliconix	SI1317DL-T1-GE3	Digi-Key	SI1317DL-T1-GE3CT-ND	25
21	Q3	1	Fitted	BCM857DS	BJT ARRAY, DUAL PNP, -45V, -100MA, 6-SOT-457	NXP	BCM857DS.115	Digi-Key	1727-4884-1-ND	25
22	R1, R2, R12, R13, R28, R29, R43, R45	8	Fitted	4.7K	RES 4.7K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF4701X	Digi-Key	P4.70KLCCT-ND	200
23	R6	1	Fitted	3.65K	RES 3.65K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF3651X	Digi-Key	P3.65KLCCT-ND	25
24	R7, R10, R11, R42	4	Fitted	300	RES 300 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF3000X	Digi-Key	P300LCCT-ND	100
25	R8, R49	2	Fitted	1.0K	RES 1.0K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1001X	Digi-Key	P1.00KLCCT-ND	50
26	R9, R24	2	Fitted	604	RES 604 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF6040X	Digi-Key	P604LCCT-ND	50
27	R14, R21, R40	3	Fitted	100K	RES 100K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1003X	Digi-Key	P100KLCCT-ND	75
28	R16	1	Fitted	100	RES 100 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1000X	Digi-Key	P100LCCT-ND	25
29	R18, R19, R30, R34, R35, R36	6	Fitted	10K	RES 10K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1002X	Digi-Key	P10.0KLCCT-ND	150
30	R22	1	Fitted	200K	RES 200K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF2003X	Digi-Key	P200KLCCT-ND	25
31	R23	1	Fitted	44.2K	RES 44.2K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF4422X	Digi-Key	P44.2KLCCT-ND	25
32	R25, R26, R27, R44, R46, R47, R48	7	Fitted	33	RES 33 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF33R0X	Digi-Key	P33.0KLCCT-ND	175
33	R31	1	Fitted	12K	RES 12K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1202X	Digi-Key	P12.0KLCCT-ND	25
34	R32	1	Fitted	1MEG	RES 1M OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1004X	Digi-Key	P1.00MLTR-ND	25
35	R33, R37, R38	3	Fitted	2.2K	RES 2.2K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF2201X	Digi-Key	P2.20KLCCT-ND	75
36	SPT1, SPT2, SPT3, SPT4	4	Fitted	SUPPORT 1/4IN		Keystone Electronics	9057	Digi-Key	36-9057-ND	100
37	SW1, SW2, SW3	3	Fitted	PTS810SJG250SMTRLFS	SWITCH TACTILE SPST-NO 0.05A 16V	ITT C&K	PTS810SJG250SMTRLFS	Digi-Key	CKN10504CT-ND	75
38	U1	1	Fitted	LSM6DSOTR	IC IMU ACCEL/GYRO I2C/SPI 14LGA	STMicroelectronics	LSM6DSOTR	Digi-Key	497-18181-1-ND	25
39	U2	1	Fitted	LPS22HHTR	IC MEMS NANO PRESSURE SENSOR 10WFLGA	STMicroelectronics	LPS22HHTR	Digi-Key	497-18182-1-ND	25
40	U3	1	Fitted	ALS-PT19-315C/L177/TR8	LIGHT SENSOR AMBIENT SMD	Everlight	ALS-PT19-315C/L177/TR8	Digi-Key	1080-1244-1-ND	25
41	U4	1	Fitted	MP5018GD-P	IC MP5018GD-P CTRL OVP 5V QFN-12	Monolithic Power Systems	MP5018GD-P	Digi-Key	1589-1191-2-ND	25
42	U5	1	Fitted	MPM3822CGRH	ULTRA SMALL STEP DOWN MODULE 6V 2A QFN-18	Monolithic Power Systems	MPM3822CGRH	Digi-Key		25
43	U6	1	Fitted	FT4232HQ-REEL	IC USB HS QUAD UART/SYNC 64-QFN	FTDI	FT4232HQ-REEL	Digi-Key	768-1027-1-ND	25
44	U7	1	Fitted	EXC-24CS350U	IC FILTER CMC 100MA 2LN 35 OHM SMD ESD	Panasonic	EXC-24CS350U	Digi-Key	P19423CT-ND	25
45	U8	1	Fitted	93LC56BT-I/OT	IC EEPROM 2KBIT 2MHZ SOT23-6	Microchip	93LC56BT-I/OT	Digi-Key	93LC56BT-I/OTCT-ND	25
46	U9	1	Fitted	NC7S208P5X	IC GATE AND 1CH 2-INP SC-70-5	ON Semi	NC7S208P5X	Digi-Key	NC7S208P5XCT-ND	25
47	U10	1	Fitted	74LVC1G123DC,125	IC MULTIVIBRATOR MONO 8VSSOP	NXP	74LVC1G123DC,125	Digi-Key	1727-2066-1-ND	25

48	U11	1	Fitted	74LCX126BQX	IC BUF NON-INVERT 3.6V 14DQFN	ON Semi	74LCX126BQX	Digi-Key	74LCX126BQXCT-ND	25
49	X1	1	Fitted	12MHz	CRYSTAL 12MHZ 18PF SMD	Diodes	FL1200112	Digi-Key	FL1200112TR-ND	25
50	J7	0	Not Fitted	SSW-104-01-F-S	CONN RCPT .100" 4POS SNGL GOLD	Samtec	SSW-104-01-F-S	Digi-Key	SAM10018-ND	0
51	J8, J10	0	Not Fitted	282834-2	TERM BLOCK 2POS SIDE ENT 2.54MM	TE Connectivity	282834-2	Digi-Key	A98333-ND	0
52	J11	0	Not Fitted	TMM-103-01-G-S	CONN HEADER 3POS SNGL 2MM T/H	Samtec	TMM-103-01-G-S	Digi-Key	SAM1174-03-ND	0
53	J13	0	Not Fitted	SSW-106-02-T-D-RA	CONN RCPT 12POS 0.1 TIN PCB R/A	Samtec	SSW-106-02-T-D-RA	Digi-Key	SAM10026-ND	0
54	R3, R4, R5, R15, R51	0	Not Fitted	4.7K	RES 4.7K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF4701X	Digi-Key	P4.70KLCT-ND	0
55	R17	0	Not Fitted	0.0	RES 0.0 OHM 1/10W JUMP 0402 SMD	Panasonic	ERJ-2GE0R00X	Digi-Key	P0.0JCT-ND	0
		105								