

mc60_sch_BoM

Ref Type	Qty	Reference	Value	MFR PN	Digi P/N SEED SKU	Description	LINK
AE	1	AE1,	ANT_BT	Inpac ACA-5036-A2-CC-S	318010123	SMD Built-in Antenna 2.4GHz;3P-5.2*3.7*0.7mm	https://statics3.seeedoc.com/ae1.png
C	8	C28,C32,C36,C39,C41,C44,C16,C17,	100nF	CC0402KRX7R8BB104	302010024	SMD CAP Ceramic 100nF-25V-10%-X7R	https://statics3.seeedoc.com/c28.png
C	6	C34,C19,C21,C25,C23,C14,	10pF	CC0402JRNPO9BN100	302010001	SMD CAP Ceramic 10pF-50V-5%-NPO	https://statics3.seeedoc.com/c34.png
C	10	C11,C10,C9,C8,C33,C18,C20,C24,C22,C13,	33pF	CC0402JRNPO9BN330	302010000	SMD CAP Ceramic 33pF-50V-5%-NPO;	https://statics3.seeedoc.com/c11.png
C	3	C1,C37,C42,	4u7	CC0805KKX5R8BB475	302010146	SMD CAP Ceramic 4.7uF-25V-10%-X5R;0805	https://statics3.seeedoc.com/c1.png
C	1	C31,	1uF	CC0603KRX7R8BB105	302010139	SMD CAP Ceramic 1uF-25V-10%-X7R	https://statics3.seeedoc.com/c31.png
C	5	C38,C43,C26,C12,C15,	10uF	CC0805KKX5R8BB106	302010178	SMD CAP Ceramic 10uF-25V-10%-X5R	https://statics3.seeedoc.com/c38.png
C	2	C35,C40,	100uF	HTZV100M8x10.5	302030095	SMD CAP Aluminum 100uF-50V;D8.0*H10.5mm	https://statics3.seeedoc.com/c35.png
C	3	C27,C29,C30,	470uF	EEV477M025A9PA A	399-6719-1-ND	CAP ALUM 470UF 20% 25V SMD	https://www.digikey.com/en/products/detail/everlight-electronics/EEV477M025A9PA-A/399-6719-1-ND
CN	1	CN5,	Audio-Jack-4	PJ-3536-L6S	320040003	SMD Audio Jack;3.5mm;4 Degree	https://statics3.seeedoc.com/cn5.png
CN	1	CN2,	Conn_GNSS	20314-001	320110048	SMD U-FL Female CONN-Gold;3P-L2.6*W2.6*H1.25mm	https://statics3.seeedoc.com/cn2.png
CN	1	CN1,	Conn_GPS	20314-001	320110048	SMD U-FL Female CONN-Gold;3P-L2.6*W2.6*H1.25mm	https://statics3.seeedoc.com/cn1.png
CN	1	CN3,	SD_CARD	ST-TF-003A	320090000	SMD Micro SD Card Socket	https://seeddoc.github.io/mc60-sch-BoM/cn3.png
CN	1	CN4,	SIM_Card	ST-SIM-006M	320100004	SMD SIM Holder;15.45*12.65*1.45mm	https://statics3.seeedoc.com/cn4.png
D	2	D6,D5,	ESD9B5.0ST5G	ESD9B5.0ST5G	ESD9B5.0ST5G0SCT-ND	TVS DIODE 5V SOD923	https://www.digikey.com/en/products/detail/everlight-electronics/ESD9B5.0ST5G0SCT-ND/304090042
D	1	D3,	LED_FIX	19-217-R6C-AL1M2VY-3T	304090042	LED-SMD Red Diffused 0603	https://statics3.seeedoc.com/d3.png

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D	1	D2,	LED_NET	19-217-R6C-AL1M2VY-3T	304090042	LED-SMD Red Diffused 0603	https://statics3.seee
D	1	D8,	LED_PWR	19-217-R6C-AL1M2VY-3T	304090042	LED-SMD Red Diffused 0603	https://statics3.seee
D	2	D4,D1,	RClamp0854P.TCT	RCLAMP0854P.TCT	RCLAMP0854P.TCT-ND	TVS DIODE 5.5V 30V SLP1616P6	https://www.digikey.co
D	1	D7,	5V1/1W	PDZVTR5.1B	PDZVTR5.1BCT-ND	Zener Diode 5.1V 1W ±5.88% Surface Mount PMDTM	https://www.digikey.co
Q	3	Q1,Q2,Q3	DTC114E	DTC114EUAT106	DTC114EUAT106CT-ND	TRANS PREBIAS NPN 200MW UMT3	https://www.digikey.co
Q	1	Q4	DTC143ZUA	DTC143ZUAT106	DTC143ZUAT106CT-ND	TRANS PREBIAS NPN 200MW UMT3	https://www.digikey.co
R	7	R11,R12,R13,R2,R3,R4,R15,	0E	RC0402JR-070RL	301010000	SMD RES 0R-5%-1/16W 0402	https://statics3.seee
R	3	R10,R7,R6,	22E	RC0603JR-0722RL	301010289	SMD RES 22R-5%-1/10W 0603	https://statics3.seee
R	1	R8,R18,	390E	RC0603JR-07390RL	301010297	SMD RES 390R-5%-1/10W 0603	https://statics3.seee
R	2	R9,	270E	RC0603FR-07270RL	311-270HRCT-ND	RES SMD 270 OHM 1% 1/10W 0603	https://www.digikey.co
R	1	R14,	10k	RC0603FR-0710KL	301010299	SMD RES 10K-1%-1/10W 0603	https://statics3.seee
R	1	R20,	47k	RC0603JR-0747KL	301010084	SMD RES 47K-5%-1/10W 0603	https://statics3.seee
R	1	R16,	51k	RC0603JR-0751KL	301010145	SMD RES 51K-5%-1/10W 0603	https://statics3.seee
R	1	R19,	56k	RC0603FR-0756KL	311-56KHRCT-ND	RES SMD 56K OHM 1% 1/10W 0603	https://www.digikey.co
R	2	R1,R5,	100k	RC0603FR-07100KL	301010196	SMD RES 100K-1%-1/10W; 0603	https://statics3.seee
R	1	R17,	124k	RC0603FR-07124KL	311-124KHRCT-ND	RES SMD 124K OHM 1% 1/10W 0603	https://www.digikey.co
S	1	S1,	SW-ON	DTSM-62K-S-V-T/R(SN431)	311020004	SMD Button ;SPST;100gf	https://statics3.seee

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U	1	U4,	LP5907-3V3	LP5907QMF-3.3Q1	296-40365-1-ND	IC REG LINEAR 3.3V 250MA SOT23-5	https://www.digikey.com
U	1	U5,	LP5907-2V8	LP5907MF-2.8/NOPB	296-39063-1-ND	IC REG LINEAR 2.8V 250MA SOT23	https://www.digikey.com
U	1	U1,	MC60_0	MC60	--	GSM/GPRS/GNSS MC60	http://www.quectel.com
U	1	U3,	MIC29302	MIC29302AWD-TR	576-4106-1-ND	IC REG LINEAR POS ADJ 3A TO252-5	https://www.digikey.com
U	1	U2,	TXB0108PWR	TXB0108PWR	310050024	IC 8-BIT TRNSTR 15KV ESD 20TSSOP	https://statics3.seeed.com

C	6	C2, C3, C4, C5, C6, C7,	10pF_DNP				
H	1	H3,	CONTROL			Header, Male	
H	1	H2,	UART			Header, Male	
H	1	H1,	UART_DBG			Header, Male	
J	1	J5,	B_ADC			Breakout Pad	
J	1	J1,	B_LS_N			Breakout Pad	
J	1	J4,	B_SPKN			Breakout Pad	
J	1	J3,	B_SPKP			Breakout Pad	
J	1	J2,	B_VRTC			Breakout Pad	
JP	1	JP2,	GSM_PWR_EN			Jumper	
JP	1	JP1,	3V3_EXT<->5V			Jumper	