

mc60_sch

No	Reference	Value	Footprint
1	AE1	ANT_BT	mc60_fp:ant_bt_inpaq5036
2	C1, C37, C42	4u7	mc60_fp:C_0805
3	C12, C15, C26, C38, C43	10uF	mc60_fp:C_0805
4	C14, C19, C21, C23, C25, C34,	10pF	mc60_fp:C_0402_NoSilk
5	C16, C17, C28, C32, C36, C39, C41, C44,	100nF	mc60_fp:C_0402_NoSilk
6	C27, C29, C30	470uF	mc60_fp:CP_Elec_10x10
7	C31	1uF	mc60_fp:C_0603
8	C35, C40	100uF	mc60_fp:CP_Elec_8x10.5
9	C8, C9, C10, C11, C13, C18, C20, C22, C24, C33, C45	33pF	mc60_fp:C_0402_NoSilk
10	CN1	Conn_GPS	mc60_fp:Molex_Microcoaxial_RF
11	CN2	Conn_GNSS	mc60_fp:Molex_Microcoaxial_RF
12	CN3	SD_CARD	mc60_fp:microsd-9-suntech-ST-TF-003A
13	CN4	SIM_Card	mc60_fp:conn_microSIM_320100004
14	CN5	Audio-Jack-4	mc60_fp:AUDIO8P-SMD-3.5-14.5X6X5MM
15	CN6	5V_IN	mc60_fp:conn_screw_2.54mm_2pol
16	D1, D4	RClamp0854P.TCT	mc60_fp:SLP1616P6
17	D2	LED_NET	mc60_fp:LED_0603
18	D3	LED_FIX	mc60_fp:LED_0603
19	D5, D6	ESD9B5.0ST5G	mc60_fp:D_SOD-923
20	D7	PDZVTR5.1B	mc60_fp:D_SOD-128
21	D8	LED_PWR	mc60_fp:LED_0603
22	L1	0E	mc60_fp:R_0402_NoSilk
23	Q1, Q2 Q3	DTC114E	mc60_fp:SOT-323_SC-70
24	Q4	DTC143ZUA	mc60_fp:SOT-323_SC-70
25	R1, R5	100k	mc60_fp:R_0603
26	R14	10k	mc60_fp:R_0603
27	R16	51k	mc60_fp:R_0603
28	R17	124k	mc60_fp:R_0603
29	R19	56k	mc60_fp:R_0603
30	R2, R3, R4, R11, R12, R13, R15	0E	mc60_fp:R_0402_NoSilk
31	R20	47k	mc60_fp:R_0603
32	R6, R7, R10	22E	mc60_fp:R_0603
33	R8, R18	390E	mc60_fp:R_0603
34	R9	270E	mc60_fp:R_0603
35	S1	SW-ON	mc60_fp:SW_SPST_DTSM

mc60_sch

36	U1	MC60_0	mc60_fp:XCVR_MC60
37	U2	TXB0108PWR	mc60_fp:TSSOP-20_4.4x6.5mm_Pitch0.65mm
38	U3	MIC29302	mc60_fp:T0-252-5_TabPin3
39	U4	LP5907-3V3	mc60_fp:SOT-23-5
40	U5	LP5907-2V8	mc60_fp:SOT-23-5

DNP PARTS

41	C2, C3, C4, C5, C6, C7	10pF_DNP	mc60_fp:C_0603
42	H1	UART_DBG	mc60_fp:Pin_Header_Straight_1x04
43	H2	UART	mc60_fp:Pin_Header_Straight_2x04
44	H3	3V3_EXT	mc60_fp:Pin_Header_Straight_1x03
45	H4	ON<>OFF	mc60_fp:Pin_Header_Straight_1x03
46	JP1	3V3_EXT<>5V	mc60_fp:Pin_Header_Straight_1x03_Pitch1.27mm
47	JP2	GSM_PWR_EN	mc60_fp:Pin_Header_Straight_1x03_Pitch1.27mm

VIRTUAL PARTS

48	G1	OSHW	mc60_fp:Logo_silk_OSHW_6x6mm
49	G2	KiCad	mc60_fp:KiCad-Logo3_6mm_SilkScreen
50	G3	LOGO_WL	mc60_fp:logo_wyo3
51	J1	B_LS_N	mc60_fp:Test_Point_Pad_2.0x2.0mm
52	J2	B_VRTC	mc60_fp:Test_Point_Pad_2.0x2.0mm
53	J3	B_SPKP	mc60_fp:Test_Point_Pad_2.0x2.0mm
54	J4	B_SPKN	mc60_fp:Test_Point_Pad_2.0x2.0mm
55	J5	B_ADC	mc60_fp:Test_Point_Pad_2.0x2.0mm
56	SC1, SC2, SC3, SC4	SCREW	mc60_fp:mtg_hole_3mm_vias_2

mc60_pcb

Id	Designator	Package	Quantity	Designation
1	AE1	ant_bt_inpaq5036	1	ANT_BT
2	C1, C37, C42	C_0805	3	4u7
3	C12, C15, C26, C38, C43	C_0805	5	10uF
4	C14, C19, C21, C23, C25, C34	C_0402_NoSilk	6	10pF
5	C16, C17, C28, C32, C36, C39, C41, C44	C_0402_NoSilk	8	100nF
6	C27, C29, C30	CP_Elec_10x10	3	470uF
7	C31	C_0603	1	1uF
8	C35, C40	CP_Elec_8x10.5	2	100uF
9	C8, C9, C10, C11, C13, C18, C20, C22, C24, C33, C45	C_0402_NoSilk	11	33pF
10	CN1	Molex_Microcoaxial_RF	1	Conn_GPS
11	CN2	Molex_Microcoaxial_RF	1	Conn_GNSS
12	CN3	microsd-9-suntech-ST-TF-003A	1	SD_CARD
13	CN4	conn_microSIM_320100004	1	SIM_Card
14	CN5	AUDIO8P-SMD-3.5-14.5X6X5MM	1	Audio-Jack-4
15	CN6	conn_screw_2.54mm_2pol	1	5V_IN
16	D1, D4	SLP1616P6	2	RClamp0854P.TCT
17	D2	LED_0603	1	LED_NET
18	D3	LED_0603	1	LED_FIX
19	D5, D6	D_SOD-923	2	ESD9B5.0ST5G
20	D7	D_SOD-128	1	PDZVTR5.1B
21	D8	LED_0603	1	LED_PWR
22	L1	R_0402_NoSilk	1	0E
23	Q1, Q2, Q3	SOT-323_SC-70	3	DTC114E
24	Q4	SOT-323_SC-70	1	DTC143ZUA
25	R1, R5	R_0603	2	100k
26	R14	R_0603	1	10k
27	R16	R_0603	1	51k
28	R17	R_0603	1	124k
29	R19	R_0603	1	56k
30	R2, R3, R4, R11, R12, R13, R15,	R_0402_NoSilk	7	0E
31	R20	R_0603	1	47k
32	R6, R7, R10	R_0603	3	22E
33	R8, R18	R_0603	2	390E
34	R9	R_0603	1	270E
35	S1	SW_SPST_WS_TASV	1	SW-ON

mc60_pcb

36	U1	XCVR_MC60	1	MC60_0
37	U2	TSSOP-20_4.4x6.5mm_Pitch0.65mm	1	TXB0108PWR
38	U3	T0-252-5_TabPin3	1	MIC29302
39	U4	SOT-23-5	1	LP5907-3V3
40	U5	SOT-23-5	1	LP5907-2V8

DNP

41	C2, C3, C4, C5, C6, C7	C_0603	6	10pF_DNP
42	H1	Pin_Header_Straight_1x04	1	UART_DBG
43	H2	Pin_Header_Straight_2x04	1	UART
44	H3	Pin_Header_Straight_1x03	1	3V3_EXT
45	H4	Pin_Header_Straight_1x03	1	ON<>OFF
46	JP1	Pin_Header_Straight_1x03_Pitch1.27mm	1	3V3_EXT<>5V
47	JP2	Pin_Header_Straight_1x03_Pitch1.27mm	1	GSM_PWR_EN

VIRTUAL

48	G1	Logo_silk_OSHW_6x6mm_mask	1	OSHW
49	G2	KiCad-Logo3_6mm_SilkScreen	1	KiCad
50	G3	logo_wyo3	1	LOGO_WL
51	J1	Test_Point_Pad_2.0x2.0mm	1	B_LS_N
52	J2	Test_Point_Pad_2.0x2.0mm	1	B_VRTC
53	J3	Test_Point_Pad_2.0x2.0mm	1	B_SPKP
54	J4	Test_Point_Pad_2.0x2.0mm	1	B_SPKN
55	J5	Test_Point_Pad_2.0x2.0mm	1	B_ADC
56	SC1, SC2, SC3, SC4	mtg_hole_3mm_vias_2	4	SCREW