

Leve	component	Quantity	Reference Designators
1	resistance, 0 Ω , 5%, 1/16W, 50V, 0603	7.0	R100, R101, R102, R165, R167, R98, R99
1	resistance, 100 Ω , 5%, 1/16W, 50V, 0603	2.0	RL20, RL21
1	resistance, 120 Ω , 5%, 1/16W, 50V, 0603	1.0	RSP1
1	resistance, 1K Ω , 5%, 1/16W, 50V, 0603	9.0	RA4, RA5, RA7, RA8, RL19, RN26, RN27, RV1, RV3
1	resistance, 0 Ω , 5%, 1/10W, 150V, 0805	1.0	RV45
1	resistance, 75 Ω , 5%, 1/10W, 150V, 0805	4.0	RN18, RN19, RN20, RN22
1	resistance, 100 Ω , 5%, 1/10W, 150V, 0805	2.0	RL15, RL18
1	resistance, 1K Ω , 5%, 1/10W, 150V, 0805	1.0	RV46
1	resistance, 4.7K Ω , 5%, 1/10W, 150V, 0805	2.0	R302, RV2
1	resistance, 100K Ω , 5%, 1/10W, 150V, 0805	2.0	R300, RV44
1	resistance, 10 Ω , 5%, 1/8W, 200V, 1206	2.0	R171, R172
1	resistance, 0.25 Ω , 1%, 1/4W, 1206	2.0	R382, R383
1	resistance, 10K Ω , 1%, 1/16W, 50V, 0603	7.0	C166, R166, R336, R337, R344, R345, RV170
1	resistance, 1.2K Ω , 1%, 1/16W, 50V, 0603	1.0	R305
1	resistance, 1.5K Ω , 1%, 1/16W, 50V, 0603	1.0	R163
1	resistance, 3.48K Ω , 1%, 1/16W, 50V, 0603	1.0	R162
1	resistance, 100K Ω , 1%, 1/16W, 50V, 0402	17.0	R26, R30, R33, R36, R385, R39, R41, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62
1	resistance, 10K Ω , 1%, 1/16W, 50V, 0402	1.0	R333
1	resistance, 20K Ω , 1%, 1/16W, 50V, 0402	2.0	R3, RV165
1	resistance, 29.4K Ω , 1%, 1/10W, 50V, 0603	1.0	R353
1	resistance, 51.1K Ω , 1%, 1/16W, 50V, 0603	1.0	R354
1	resistance, 54.9K Ω , 1%, 1/10W, 50V, 0603	1.0	RV171
1	resistance, 1.5K Ω , 1%, 1/16W, 50V, 0402	1.0	RN2
1	resistance, 10 Ω , 5%, 1/16W, 50V, 0402	1.0	RY2
1	resistance, 33 Ω , 5%, 1/16W, 50V, 0402	26.0	R113, R114, R115, R117, R250, R275, R294, R295, R296, R297, R298, R299, R357, R358, R362, R376, R377, R378, R379, R380, R381, RN10, RN11, RN12, RN16, RN5
1	resistance, 1M Ω , 5%, 1/16W, 50V, 0402	1.0	RN14
1	resistance, 100K Ω , 5%, 1/16W, 50V, 0402	13.0	R149, R203, R213, R221, R276, R304, R341, R365, RA3, RA6, RA9, RV166, RV174
1	resistance, 0 Ω , 5%, 1/16W, 50V, 0402	12.0	R116, R118, R335, R343, RA96, RL1, RN13, RN4, RV167, RV168, RV173, RV175
1	resistance, 10K Ω , 5%, 1/16W, 50V, 0402	23.0	R184, R186, R188, R190, R21, R211, R22, R220, R23, R24, R25, R272, R301, R307, RA10, RA101, RA102, RA97, RA98, RA99, RL12, RL25, RV176
1	resistance, 1K Ω , 5%, 1/16W, 50V, 0402	11.0	R185, R187, R189, R191, R29, R31, R34, R37, R42, RA1, R
1	resistance, 2.2K Ω , 5%, 1/16W, 50V, 0402	3.0	R219, R223, RL13
1	resistance, 4.7K Ω , 5%, 1/16W, 50V, 0402	16.0	R136, R138, R157, R159, R169, R181, R182, R183, R206, R209, R290, R387, RL17, RL22, RL26, RV4
1	resistance, 5.1K Ω , 5%, 1/16W, 50V, 0402	12.0	RN15, RN17, RN21, RN24, RN25, RN28, RN29, RN30, RN31, RN32, RN33, RN34
1	resistance, 22K Ω , 5%, 1/16W, 50V, 0402	4.0	R153, R214, R222, R340
1	resistance, 2K Ω , 5%, 1/16W, 50V, 0402	2.0	R170, RL4
1	resistance, 2 Ω , 1%, 1/16W, 50V, 0402	4.0	RN3, RN6, RN7, RN8
1	resistance, 10M Ω , 5%, 1/16W, 50V, 0402	1.0	RY1
1	resistance, 127K Ω , 1%, 1/16W, 50V, 0402	1.0	R308
1	resistance, 18.2K Ω , 1%, 1/16W, 50V, 0402	1.0	R384
1	resistance, 3K Ω , 1%, 1/16W, 50V, 0402	1.0	RV5
1	resistance, 5.76K Ω , 1%, 1/16W, 50V, 0402	1.0	R4
1	resistance, 7.5K Ω , 1%, 1/16W, 50V, 0402	1.0	R334
1	resistance, 100K Ω , 1%, 1/4W, 200V, 1206	16.0	R27, R28, R32, R35, R38, R40, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61
1	resistance, 2.49K Ω , 1%, 1/16W, 50V, 0402	1.0	RN9

1	resistance, 25. 5K Ω , 1%, 1/10W, 50V, 0603	17. 0	R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, RV7
1	resistance, 7. 68K Ω , 1%, 1/10	1. 0	RV8
1	resistance, 1. 5K Ω , 1%, 1/4W, 200V, 1206	16. 0	R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R5, R6, R7, R8, R9
1	capacitance, 10nF, X7R, 25V, $\pm 10\%$, 0402	11. 0	C3, CVW36, CVW37, CVW43, CVW44, CVW45, CVW46, CVW47, CVW48, CVW49, CVW50
1	capacitance, 100nF, X7R, 16V, $\pm 10\%$, 0402	43. 0	C137, C34, C35, C58, CA39, CA4, CA5, CL2, CL3, CL8, CN11, CN12, CN13, CN16, CN18, CN19, CN20, CN9, CV12, CV271, CV282, CV283, CVN4, CVN5, CVN6, CVW10, CVW11, CVW12, CVW13, CVW14, CVW15, CVW16, CVW17, CVW40, CVW41, CVW42, CVW53, CVW54, CVW55, CVW56, CVW7, CVW8, CVW9
1	capacitance, 1nF, X7R, 50V, $\pm 10\%$, 0402	2. 0	CN21, CN22
1	capacitance, 100pF, NP0, 50V, $\pm 5\%$, 0402	1. 0	C36
1	capacitance, 10pF, COG, 50V, \pm	2. 0	CN10, CV281
1	capacitance, 1uF, X5R, 6. 3V, $\pm 10\%$, T0. 5mm, 0402	1. 0	CV280
1	capacitance, 10nF, X7R, 50V, $\pm 10\%$, 0603	4. 0	CV11, CV297, CV40, CV9
1	(#) capacitance, 1uF, Y5V, 16V, $-20\% \sim 80\%$, 0603	2. 0	CV10, CV8
1	capacitance, 100nF, X7R, 25V, $\pm 10\%$, 0603	28. 0	C168, C169, C29, C62, CL4, CL5, CL6, CL7, CV272, CV274, CV276, CV291, CVL4, CVL5, CVW1, CVW22, CVW23, CVW24, CVW25, CVW30, CVW31, CVW32, CVW33, CVW34, CVW35, CVW4, CVW5, CVW6
1	capacitance, 100nF, X7R, 50V, $\pm 10\%$, 0603	9. 0	C149, C161, C76, C78, CV295, CV35, CV39, CVL2, CVL6
1	capacitance, 1uF, X7R, 16V, $\pm 10\%$, 0603	2. 0	C24, CVW39
1	(#) capacitance, 4. 7uF, Y5V, 25V, $-20\% \sim +80\%$, 0805	1. 0	CV5
1	capacitance, 10uF, X5R, 10V, $\pm 10\%$, T1. 25mm, 0805	7. 0	CA3, CA6, CL16, CN17, CV294, CVL1, CVW52
1	capacitance, 100nF, 100V, X7R, $\pm 10\%$, T1. 25mm, 0805	1. 0	C148
1	capacitance, 4. 7uF, 16V, X5R, 16V, $\pm 10\%$, 0805	1. 0	C162
1	capacitance, 1nF, 2KV, X7R, 2KV, \pm	1. 0	CN15
1	capacitance, 220uF, 16V, KLE, $\Phi 6. 3 \times 11$	2. 0	CVW38, CVW51
1	capacitance, 100uF, 25V, KLE, $\Phi 6. 3 \times 11$	4. 0	C172, CVW57, CVW58, CVW59
1	capacitance, 220uF, 25V, KLE, $\Phi 8 \times 12$	2. 0	CVW18, CVW19
1	capacitance, 12pF, NP0, 50V, 5%, 0402	2. 0	CY3, CY4
1	capacitance, 27pF, NP0, 50V, 5%, 0402	2. 0	CY1, CY2
1	capacitance, 10uF, 25V, X5R, $\pm 10\%$, T1. 6mm, 1206	2. 0	CVW20, CVW21
1	capacitance, 15pF, NP0, 50V, $\pm 5\%$, 0402	2. 0	C146, C147
1	capacitance, 10uF, X5R, 25V, $\pm 10\%$, T1. 25mm, 0805	10. 0	C1, C159, C160, C2, CV275, CV277, CV3, CV4, CV6, CV7
1	capacitance, 1uF, X5R, 25V, $\pm 10\%$, 0603	18. 0	C10, C11, C12, C13, C14, C15, C151, C152, C16, C17, C18, C19, C20, C21, C6, C7, C8, C9
1	capacitance, 22uF, X5R, 16V, $\pm 20\%$, T1. 6mm, 1206	5. 0	C23, CV284, CV285, CV286, CV296
1	capacitance, 2. 2uF, X5R, 6. 3V, \pm	2. 0	CA1, CA2
1	inductance, 4. 7uH@100KHz, $\pm 20\%$, 5. 5A, SMT, 7. 3x6. 6mm	1. 0	LV3
1	inductance, 10uH@100KHz, $\pm 20\%$, 2. 45A, 48m Ω , SMT, 6x6	1. 0	L12
1	magnetic bead, 120 Ω @100KHz, 25%, 1. 3A, 90m Ω , 0402	5. 0	FB13, FB15, FB16, FB2, RN23
1	inductance, 90 Ω @100MHz, 0. 28A, 0. 41 Ω , 2x1. 2x1. 2	1. 0	L14

1	inductance, 4.7uH@100K, 20%, 3.3A, 26mΩ, 6x6x4.5	1.0	L13
1	diode, LL4148, LL34	12.0	D28, D29, D30, D31, D34, D5, D6, D7, DT1, DT2, DT3, DT4
1	Schottky diode, B290-13-F, SMB	2.0	D35, D36
1	Schottky diode, SK54, DO-214AB	1.0	DG1
1	Schottky diode, B130LAW-7-F, SOD-123	2.0	D14, D32
1	LED, 20mA, 35mcd, SMT, 0603	3.0	D12, D13, D4
1	LED, 20mA, 54mcd, SMT, 0603	4.0	D47, D48, D8, D9
1	Triode, LMBT3906LT1G, SOT23	1.0	Q5
1	Triode, LMBT3904LT1G, SOT23	9.0	Q10, Q11, Q12, Q13, Q15, Q17, Q45, Q46, Q52
1	(#)MOSFET, 2SK3541T2L, SOT723	2.0	Q48, Q49
1	MOSFET, DMG4435SSS-13, SO-8	5.0	Q14, Q16, Q43, Q44, Q50
1	crystal, 25MHZ, 49USM,	1.0	Y3
1	crystal, 25MHz, 30ppm, 10pF, 4PIN, 2.5x3.2mm	1.0	Y4
1	PPTC, JK16-300, DIP-2, 5.1mm	1.0	PT3
1	PTC, JK30-400, 2PIN, 5.1MM	1.0	PT1
1	Fuse, 0618002. MXP, Φ5x20mm	3.0	U3上, U5上, U7上
1	resistance, 220KD07, DIP-2, 5mm	16.0	RV24, RV25, RV26, RV27, RV28, RV29, RV30, RV31, RV32, RV33, RV34, RV35, RV36, RV37, RV38, RV39
1	relay, SPDT, 5VDC, HFD23-005-1ZP (550)	4.0	U22, U23, U24, U25
1	IC, LM358G-S08-R, SOP-8	1.0	UL2
1	IC, SP202EEN-L, NSOIC-16	1.0	UL4
1	IC, PT7M7809STEX, SOT23-3	1.0	UL6
1	IC, RTL8201F-VB-CG, QFN-32	1.0	UN1
1	IC, W25Q64FVSSIG, SOIC-8	1.0	U21
1	IC, STM32F207VET6TR, LQFP-100	1.0	U1
1	IC, SGM6512YTL32G/TR, TQFN-5X5-32L	1.0	U20
1	IC, RX8010SJ, SOP-8	1.0	UL3
1	IC, BQ24105RHLR, QFN-20	1.0	UV11
1	IC, SN1504026DDCR, SOT23-6	2.0	UV1, UV2
1	PCB-DS-19002 REV2.4	1.0	PCB
1	RJ45, 125VAC, 1.5A	1.0	J11
1	Socket, CR1220, 2pin	1.0	BATTERY1
1	Socket, 2.5MM	1.0	JP16
1	Socket, 1.5mm, 250VAC, 1A	1.0	J9
1	PCB Socket, 2MM	1.0	JP25
1	Socket, DG500-5.0-03P-14-00A (H)	9.0	CN1, CN2, CN26, CN3, CN4, CN5, CN6, CN7, CN8
1	Socket, DG500-5.0-04P-14-00A (H)	3.0	CN23, CN24, CN25
1	Socket, 2.54mm	1.0	JP20
1	Socket, 4 pin, 45°, DG127S-5.0-04P-14	2.0	JP8, JP9
1	CR1220, 40mAh, 3.0V	1.0	BATTERY1上
1	network transformer, 10/100BASE-T, 16P	1.0	U26
1	diode, 8.2V, 200mW, SOD323	1.0	D10
1	diode, 9.1V, 200mW, SOD323	2.0	D33, DV10
1	TVS, 6.5V, 600W, SMB	2.0	TVS17, TVS18
1	TSS, 25V, 100pF, 6KV (10/700uS), SMB	2.0	TSS1, TSS2
1	TVS, 300V, 1KA, 1pF, SMT, 4.5x3.2mm	2.0	BE1, BE2
1	TVS, 3.3V, 20A, 350W, 1pF, SOD323	2.0	TVS19, TVS20
1	TVS, 5V, 20Vc, 13A, 3pF, SOT-143	1.0	U27
1	TVS, 5.0SMDJ16CA, SMC	3.0	U2, U4, U6
1	MCU_T1_20150811.bin	1.0	U1
1			
1	GPRS Module		

1	resistance, 0 Ω , 5%, 1/16W, 50V, 0603	1.0	RV27
1	resistance, 10K Ω , 1%, 1/16W, 50V, 0603	1.0	RV18
1	resistance, 1K Ω , 1%, 1/16W, 50V, 0402	2.0	RG46, RG54
1	resistance, 20 Ω , 1%, 1/16W, 50V, 0402	1.0	RV10
1	resistance, 24.9K Ω , 1%, 1/16W, 50V, 0603	1.0	RV16
1	resistance, 40.2K Ω , 1%, 1/10W, 50V, 0603	1.0	RV14
1	resistance, 0 Ω , 5%, 1/16W, 50V, 0402	1.0	RV17
1	resistance, 100 Ω , 5%, 1/16W, 50V, 0402	2.0	RG47, RG49
1	resistance, 1K Ω , 5%, 1/16W, 50V, 0402	5.0	RG43, RG44, RG50, RG52, RG61
1	resistance, 22 Ω , 5%, 1/16W, 50V, 0402	2.0	RG59, RG60
1	resistance, 4.7K Ω , 5%, 1/16W, 50V, 0402	5.0	RG41, RG42, RG45, RG53, RV26
1	resistance, 5.6K Ω , 5%, 1/16W, 50V, 0402	1.0	RG51
1	resistance, 51 Ω , 5%, 1/16W, 50V, 0402	3.0	RG56, RG57, RG58
1	resistance, 30K Ω , 5%, 1/16W, 50V, 0402	2.0	RG39, RG40
1	resistance, 75K Ω , 1%, 1/16W, 50V, 0402	1.0	RV12
1	capacitance, 10nF, X7R, 25V, $\pm 10\%$, 0402	1.0	CG20
1	capacitance, 1nF, X7R, 50V, $\pm 10\%$, 0402	1.0	CV22
1	capacitance, 10pF, COG, 50V, \pm	1.0	CG26
1	capacitance, 22pF, NPO, 50V, $\pm 5\%$, 0402	1.0	CG17
1	capacitance, 33pF, COG, 50V, $\pm 5\%$, 0402	2.0	CG25, CV17
1	capacitance, 1uF, X5R, 6.3V, $\pm 10\%$, T0.5mm, 0402	1.0	CG19
1	capacitance, 100nF, X7R, 25V, $\pm 10\%$, 0603	1.0	CV30
1	capacitance, 100nF, X7R, 50V, $\pm 10\%$, 0603	4.0	CV14, CV16, CV20, CV21
1	capacitance, 4.7uF, 16V, X5R, 16V, $\pm 10\%$, 0805	1.0	CG18
1	capacitance, 10uF, 25V, X5R, $\pm 10\%$, T1.6mm, 1206	1.0	CV31
1	capacitance, 1uF, X5R, 25V, $\pm 10\%$, 0603	2.0	CG24, CG32
1	capacitance, 22uF, X5R, 16V, $\pm 20\%$, T1.6mm, 1206	2.0	CV18, CV19
1	capacitance, 220uF, 6.3V, $\pm 15\%$	3.0	CG21, CG22, CG23
1	magnetic bead, 120 Ω , 100MHz, 25%, 3A, 0.04 Ω , SMT, 0805	2.0	FB1, FB2
1	inductance, 4.7uH@100KHz, $\pm 20\%$, 5.5A, SMT, 7.3x6.6mm	1.0	LV1
1	LED, 20mA, 35mcd, SMT, 0603	3.0	LED1, LED2, LED3
1	audion, LMBT3904LT1G, SOT23	4.0	Q22, Q3, Q4, Q5
1	TVS, UDT26A05L05UL, SOT23-6L	1.0	U4
1	IC, MP2314GJ-Z, TSOT23-8	1.0	UV1
1	PCB-DS-19501 REV1.1	1.0	PCB
1	Socket, SIM, 6pin	1.0	J10
1	MCX Socket, 50ohm	1.0	J13
1	GSM/GPRS, SIM800L	1.0	U3