

Project No.: SAT802

BOM No.: 02-20802-01

Revision:

SHEET 1 OF 6

CASTEL TECHNICAL CENTER

Bill of Material

Bom No.: 02-20802-01

Project No.: SAT802

Model No.: CB-802

Description : SAT802 Main Board BOM

Revision:

Final on: 2011-4-2

Issued on: 2011-4-2

Remarks:

Prepared by:

Checked by:

Approved by:

Item	Part No.	Description	Alternative	Reference No.	Qty	Remarks
1	79S-B5100-07E0YO	SMD Resistor,10 OHM,+5%,1/10W,0603,YAGEO		R1, R2, R34	3	
2	79S-B5220-07E0YO	SMD Resistor, 22 OHM, ±5% , 1/10W , 0603 , YAGEO		R8, R9, R10	3	
3	79S-B9241-07E9YO	SMD Resistor,249 OHM,+1%,1/10W,0603,RC0603FR-07249RL,YAGEO		R41	1	
4	79S-B9511-07E0YO	SMD Resistor,510 OHM,+1%,1/10W,0603,YAGEO		R42	1	
5	79S-B5681-07E0YO	SMD Resistor,680 OHM,+5%,1/10W,0603,YAGEO		R12, R14, R15, R16, R23, R28	6	
6	79S-B9102-07E0YO	SMD Resistor,1K OHM,+1%,1/10W,0603,YAGEO		R11,R19,R21,R24,R25,R26,R29,R44	8	
7	79S-B9512-07E0YO	SMD Resistor,5.11K OHM,+1%,1/10W,0603,YAGEO		R37	1	
8	79S-B5472-07E0YO	SMD Resistor, 4.7K OHM, ±5% , 1/10W , 0603 , YAGEO		R30	1	
9	79S-B5103-07E0YO	SMD Resistor,10K OHM,+5%,1/10W,0603,YAGEO		R4, R5, R6, R13, R20, R27, R31, R40, R43	9	
10	79S-B5363-07E0YO	SMD Resistor,36K OHM,+5%,1/10W,0603,YAGEO		R36	1	
11	79S-B5104-07E0YO	SMD Resistor,100K OHM,+5%,1/10W,0603,YAGEO		R38	1	
12	79S-B5105-07E0YO	SMD Resistor,1M OHM,+5%,1/10W,0603,YAGEO		R3	1	
13	79S-95102-004YO	SMD Resistor Array,4*1K OHM,+5%,1/16W, 0603, YAGEO		RP2	1	
14	79S-95681-004YO	SMD Resistor Array,4*680 OHM,+5%,1/16W, 0603, YAGEO		RP1, RP5	2	
15	79S-95473-004YO	SMD Resistor Array,4*4K7 OHM,+5%,1/16W, 0603, YAGEO		RP3	1	

Item	Part No.	Description	Alternative	Reference No.	Qty	Remarks
16	79S-95103-004YO	SMD Resistor Array,4*10K OHM,+/-5%,1/16W, 0603, YAGEO		RP4,RP6	2	
17	80S-65220-01FHOG	MLCC,22pF,+/-5%,25V,0603,COG,0603CG220J250XX,Fenghua		C1, C2, C13, C15, C44	5	
18	80S-61331-A1FHOG	MLCC, 330pF, ±10%, 25V, 0603, X7R, 0603CG331J250, Fenghua		C41, C50	2	
19	80S-61471-A1FHOG	MLCC, 470pF, ±10%, 25V, 0603, X7R, 0603CG471.J250, Fenghua		C47	1	
20	80S-81102-A1FHOG	MLCC,1nF,+/-10%,50V,0603,X7R,0603B102K500,Fenghua		C9, C11, C12, C14, C16, C17, C18,C23, C24, C25, C27, C34, C45, C53, C59	15	
21	80S-61272-A1FHOG	MLCC, 2.7nF, ±10%, 25V, 0603, X7R, 0603CG272J250, Fenghua		C48	1	
22	80S-45103-01FHOG	MLCC, 10nF, +/-5%,16V, 0603, COG, 0603CG103J250, Fenghua		C51	1	
23	80S-61223-A1FHOG	MLCC, 22nF, +/-10%,25V, 0603, X7R, 0603CG223J250, Fenghua		C36, C39, C49	3	
24	80S-65104-01FHOG	MLCC, 100nF, ±5%, 25V, 0603, COG, 0603CG104J250, Fenghua		C3, C4, C5, C6, C7, C10, C19, C20,C21,C22,C26,C28,C29,C30, C31,C32,C33,C35,C40,C54,C55, C57,C58,C60,C61,C64,C65,C69,	28	
25	80S-61474-A1FHOG	MLCC, 0.47uF, +/-10%, 25V, 0603, X7R, 0603CG474J250,Fenghua		C46	1	
26	80S-61105-A1FHOG	MLCC, 1uF, ±10%, 25V, 0603, X7R, 0603CG105J250,Fenghua		C8, C52, C62, C63	4	
27	080-72107-I2KRF	Aluminum Electrolytic Capacitor,100uF,50V,Φ8*12mm,±20%,-40℃~+85℃,KOSHIN		C37, C38	2	
28	80-12103-Q2YO	Aluminum Electrolytic Capacitor,1000uF,10V,ø8*12mm,±20% ,-40℃~+105℃,Yageo		C42, C43, C56, C66, C67, C68	6	

Item	Part No.	Description	Alternative	Reference No.	Qty	Remarks
29	69S-OC68A-05FHV	Chip high frequency inductor,6.8nH,0603,+5%,风华		L2, L3, L4, L5	4	
30	69S-OP227-00MU	Chip high frequency inductor, LQG15HS27NJ02, 0402, Murata		L1	1	
31	69S-OT101-20JZ	SMT POWER INDUCTORS,100uH,± 20%,3A,SMD127-101M,CNJZF		L6	1	
32	69S-OT101-30SU	Chip high frequency inductor,100uH,± 30%,0.8A,CDRH8D58/LDNP-101N,SUMIDA		L7	1	
33	87-40211-144	Single Row, 2Pin, 90°Angle,Pitch:1.27mm		J5	1	
34	067-10536-00JY	TVS,5KP36A,P600,BrightKing		D8	1	
35	085-71206-43	CRYSTAL, 8MHz, HC-49US(3.5mm), 30ppm, Load Capacitance: 22pF, JINGFENG		Y1	1	
36	135-29602-58IR	9602 SBD Module,Iridium Communications Inc.		M2	1	
37	67S-30016-03FC	Small Signal Diode, BAS16, SOT-23, FAIRCHILD		D3, D4, D5, D13, D14	5	
38	65S-70706-08CN	Power Supply Supervisor, CN706RS, SOP8, CONSONANCE		U16	1	
39	66S-92066-59DI	P-Channel,DMP2066LSN,SC-59,DIODES		Q2, Q5	2	
40	87-12425-145	D-SUB Stack Connector,9M+15F,1220-124-301-210,Dongguan Yan Da		J4	1	
41	66S-01423-00RM	Digital Transistors, DTC114YKA, SOT-23, Rohm		Q1, Q6	2	
42	77S-08102-20SLG	Chip Ferrite Bead, 1K OHM, 0603, GZ1608D102, SUNLORD		FB1,FB2,FB3,FB4,FB5,FB7,FB8,FB9, FB11,FB10,FB12,FB13,FB14,FB15, FB16,	15	

Item	Part No.	Description	Alternative	Reference No.	Qty	Remarks
43	77S-12601-21SLU	Chip Ferrite Bead, 600 OHM, 0805, UPZ2012E601, SUNLORD		FB6	1	
44	50S-24005-40HI	Pitch Connectors For FPC/FFC, 40PIN, FH12-40S-0.5SH, Hirose		J3	1	
45	65S-26033-252GM	LDO Regulators, GM6603ATC3, TO-252, GAMMA		U14	1	
46	65S-25576-20B	Step-Down Switching Regulator, LM5576, TSSOP-20, NS		U12	1	
47	67S-30001-06VSM	Surface Mount Glass Passivated Rectifier,S1M,DO-214AC,Vishay		D7	1	
48	66S-00123-00FC	NPN General Purpose Amplifier,MMBT4401,SOT-23,FAIRCHILD		Q3, Q4, Q7, Q8, Q9	5	
49	135-20006-57UL	GPS Module, NEO-6Q, UBLOX		U1	1	
50	66S-08011-00J	Photocoupler, PS2801-1, SSOP-4, NEC		U17, U18, U19	3	
51	66S-08014-00J	Photocoupler, PS2801-4, SSOP-16, NEC		U8, U9, U10	3	
52	65S-29333-05RK	LDO Regulator,RT9193-3.3PB,SOT-23-5,Vout:3.3V/300mA,Vin:5V,Richtek		U13, U15	2	
53	94-37011-18	PPTC, RXEF110, 72V,1.1A, RAYCHEM		RT1	1	
54	50-00009-57ST	SMA Right Angle Jack, SMA-J-P-H-RA-TH1, 50 Ohm, Samtec		J1, J8	2	
55	50-00012-58ST	MMCS Straight Through Hole Plug, MMCX-P-P-H-ST-TH1, 50 Ohm, Samtec		J7	1	
56	67S-10040-00ON	TVS,SMF40AT1,SOD-123,ON		D1, D2, D6, D10, D11, D12	6	
57	65S-70005-06ON	TVS Array,SMF05C,SC70-6,ON		U3	1	

Item	Part No.	Description	Alternative	Reference No.	Qty	Remarks
58	65S-73232-16SI	RS232 Transceivers, SP3232EEN, SO-16, SIPEX		U5	1	
59	67S-80036-06FC	Schottky Rectifier, SS36, SMC/DO-214AB, FAIRCHILD		D9	1	
60	65S-81675-08PCT	SPI Serial Flash, PCT25VF016B-75-4I-S2AF, 8-Lead SOIC, PCT		U2	1	
61	65S-61016-64TS	MCU, STM32F101RET6, LQFP64, ST		U6	1	
62	67-59342-50Y	LED Lamp Module, Dual Green, WP934MD/2GD, Everluck		U4, U7	2	
63	87S-42012-143	Dual Wipe Socket, SMT Type, 20 Pin, Pitch 1.27mm, Height 2.21mm, CLP-110-02-L-D, Samtec		J6	1	
64	87S-42518-116	90° Wafer, SMT Type, 8PIN, Pitch 1.25mm, A1251WRA-S-8P, CJT		J2	1	
65	96-60440-171	FPC, 40PIN, Length:4cm, Pitch:0.5mm,OKING			1	
66	62-80201-94A	SAT802 Mainboard PCB, 109mm X 61.6mm×1.6mm, FR-4, Six Layers, Version: A			1	
67	79S-B9163-07EYO	SMD Resistor,1.65K OHM,+ -1%,1/10W,0603,YAGEO		R39	1	

Project No.: SAT802

BOM No.: 02-20802-04

Revision:

SHEET 1 OF 2

CASTEL TECHNICAL CENTER

Bill of Material

Bom No.: 02-20802-04

Project No.: SAT802

Model No.: CB-802

Description : SAT802 Accessory BOM

Revision:

Final on: 2011-4-2

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Remarks:

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Item	Part No.	Description	Alternative	Preference No.	Qty	Remarks
1	86-A1800-32	Quad-band GSM Antenna, TQC-900/1800FW1, SMA, sticking, 3m feeder line, Kenbotong			1	
2	86-35753-35	Active GPS Antenna, SMA, 3m feeder line, FLH1575WTXL3SMA, SHENZHEN FEILIHUA			1	
3	96-C1512-194G	Power&Data Line, including one DB-15 Male Connector,one DB-9 Female Connector,one 12 pin Cable with 1.5m length, ROHS, NS-TECH			1	Vendor P/N: SA128120043A

CASTEL TECHNICAL CENTER

Bill of Material

Bom No.: 02-20802-03

Project No.: SAT802

Model No.: CB-802

Description : SAT802 SIM Card Board BOM

Revision:

Final on: 2011-4-2

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Remarks:

Prepared by:

Checked by:

Approved by:

Item	Part No.	Description	Alternative	Reference No.	Qty	Remarks
1	50-00006-56MUP	SIM Card Holder, MUP-C713(without post), 6 PIN, MUP		J10	1	
2	62-80202-64A	SAT802 SIM Card Borad PCB, 44mm X 18.8mm×1.2mm, FR-4, Two			1	
		Version: A				

CASTEL TECHNICAL CENTER

Bill of Material

Bom No.: 02-20618-20

Project No.: MPIP-618

Model No.: CB-618

Description : MPIP-618 SIM900 Switch Board BOM

Revision:

Final on: 2011-4-2

Issued on: 2011-4-2

Remarks:

Prepared by:

Checked by:

Approved by:

Item	Part No.	Description	Alternative	Reference No.	Qty	Remarks
1	79S-B5000-07E0YO	SMD Resistor,0 OHM,±5%,1/10W,0603,YAGEO		R2,R3,R5	3	
2	79S-B5102-07E0YO	SMD Resistor,1K OHM,±5% ,1/10W,0603,YAGEO		R1,R4	2	
3	50S-24005-40HI	SMD Connector, 40PIN, FH12-40S-0.5SH,Hirose		U2	1	
4	50S-00101-28IP	GSC RF Connector, 20279-001E-01, SMD, I-PEX		E1	1	
5	135-30900-56SC	GSM/GPRS Module, SIM900, Baudrate:115200, SIMCOM		U1	1	
6	96-A1300-146	Micro Coaxial Connector,20278,13cm,I-PEX		to be installed on E1	1	
7	62-61803-64C	MPIP-618 SIM900 Switch Board PCB, 54.67mm(L)×37mm(W)×1.0mm(T), Two Layers,Version: C			1	