

APPENDIX 3
SEMICONDUCTOR FUNCTIONS

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SEMICONDUCTOR FUNCTIONS
FCC ID: F3JSAU800E

APPENDIX 3

Active Parts for Sau-800E

Main board:

<u>Reference:</u>	<u>Identifier:</u>	<u>Function:</u>
Q811	KTC4376Y	Current source for Disruption LED
Q805	MMSF3P03	Battery power switch
Q808	KTA1504	Establishes turn off voltage for battery control switch
Q804	KRC104	Battery charge control switch
Q807	KRC104	Battery turn off switch
Q901	KRC104	Multiplexer enable switch
Q902	KRC104	BATT LED control switch
Q905-Q909	KRC104	Open collector logic inverters
Q806, Q808, Q810	KTC3875	Battery power control switch circuit
Q812	KTC3875	Current source for Disruption LED
Q801-Q803	MJD32	Battery charging current, series pass transistors
Q903	KRA101	Current source for BATT_SIGN LED
Q904	KRA101	Current source for Signal LED
Q910	KRA101	ON-Off switch for DTMF decoder U905
U503	KIA358	Transmit and Receive gain amplifier for SLIC U501
U702	KIA358	Low pass filter amplifier for Caller-Id generator U701
U801	KIA358	DC voltage control for Battery Charge float voltage circuit
U501	LUCL8560	Subscriber line interface circuit
U502	ATTL7591	Isolation and surge protection IC for SLIC IC U501
U701	SC429130	Masked 68HC05, Generates Caller-ID
U901-U902	MC14094	Serial-to-parallel port expanders
U905	MC145436	DTMF decoder
U802	LP2951	Precision voltage regulator for battery float charge circuit
D806	MMBZ5230	4.7V ZENER diode
D801	MMBZ5226	3.3V ZENER diode
D805	MMBZ5237	8.2V ZENER diode
D803	KDS181	BATT_OFF control line protection
D901	KDS181	Wired OR gate for MSM_RXD (5V) and FAX_TXD control lines

D902	KDS181	Wired OR gate for RFR (5V) and RFR (FAX) control lines
D802	MBRD640	Wired OR gate for source of SYS_POWER
D807	EC15QS04	Protection diode for battery charge path

DC-DC Converter board:

<u>Reference:</u>	<u>Identifier:</u>	<u>Function:</u>
U601	MAX797	5V Step-down DC-DC Converter
D601	BAT54C	Boost circuit supply diode
Q601	MTD20N06	High side MOSFET switch for 5V DC-DC converter
Q602	MTD20N06	Low side MOSFET switch for 5V DC-DC converter
D602	MBRS360	Diode rectifier for 5V DC-DC converter
U602	MAX774	Adjustable inverting DC-DC controller
Q603	MTD20P06	MOSFET switch for inverting DC-DC converter
D603	MURS160	Diode rectifier for inverting DC-DC converter
Q604	RK7002	MOSFET switch for adjusting voltage level of inverting DC-DC converter
Q605	KRC104	Bipolar transistor circuit to switch inverting DC-Dc converter on or off

MDL-1 Board:

<u>Reference:</u>	<u>Identifier:</u>	<u>Function:</u>
D1	KDS181	switching diode for reset line
Q1-Q3	KRC104	Digital control line switches
U1-U4	KIA358	Buffer and Filter amplifiers
U5	AT24C02AN	EEPROM for NV Data
U6	KIA7045F	Voltage sensor speed-up for U15 reset line
U7	MC74HC00AD	NAND Gate logic for digital controls
U8	AT27C256R	EPROM for U15
U9	UM62256DM	RAM for U15
U10	RC336ACFA/ R6749-25	Modem IC
U11	AT27C010A	ROM for U10
U12	KM68257CJ	RAM for U10
U15	MC68HC11F1	Micro Controller IC

CDMA BOARD:

<u>Reference:</u>	<u>Identifier:</u>	<u>Function:</u>
Q6	BFP420	Low noise RF amplifier.
Q2	FMMT717	Series pass transistor.
Q1	KRC104	Digital control switch.
Q3, Q4, Q11	KRC404	Digital control switches.
Q7	KRA107	Series pass transistor.
U16	TLV320AC36	CODEC IC
U19	TC7SO4FU	Logic inverter IC.
U9	KM68V2000	SRAM IC
U15	24LC65T	EEPROM IC
U23	LMC7111B1M5X	Op-amp buffer IC.
U17	AM29L800BT	Flash memory IC.
U3	PMB2333R	Mixer/Amplifier IC
U14	RF2456	Frequency down converter IC.
U8	Q5500	RX AGC amplifier.
U2	Q5505	TX AGC amplifier.
U1, U18, U22, U24	ILC7082AIM5-33	3.3V regulator IC.
U5, U7, U10	ILC7082AIM5-36	3.6V regulator IC.
U6	LMX2335LTMX	Phase locked loop IC.
U13	TC7S14FU	Gate inverter IC.
U11	MSM2300	Mobile station monitor IC.
U4	RF2132	RF power amplifier IC.
U12	Q5312 I-3S2-BBA2	BASEBAND ASIC IC.
U20	MC14504BD	Logic level converter IC.
U21, U25	UPG152TA	MMIC switch IC.
IC2	CEO73R836DCB	Isolator IC.
VCO1	UCVA3X132A	Voltage controlled oscillator.
D6, D8	DA204U-T106	Protection diodes.
D7	BAT74	Power level detector.
D5	KDS181	Protection diode.