

Modifications

Revision 01 Issue 1
Revision 01 Issue 2

None – First issue of revision 01
Addition of C1219

L1201	was	33µH inductor	becomes	470R 2012 resistor
L1202	was	33µH inductor	becomes	22R0 2012 resistor
R1209	was	47K0 resistor	becomes	10K0 resistor 0603
R1220	was	1K00 resistor	becomes	10K0 resistor 0603
R1221	was	1K00 resistor	becomes	10K0 resistor 0603
R1216	was	47K0 resistor	becomes	10K0
IC811	was	LT1027ECS8	becomes	LT1027ECS8-5
IC1201	was	LMC662	becomes	AD822AR
R403	was	3M50	becomes	3M30
R404	was	3M50	becomes	3M30
R820	was	3M50	becomes	3M30
IC901	was	DS90C363MTD	becomes	DS90C363AMTD
R1101 47K0 0603	was	omitted in error from parts list		
R1102 47K0 0603	was	omitted in error from parts list		
J608		was CON 2WAY0.1KKR SQUAREPINHEADERWITHLOCK		22-05-7028
Becomes		CON 2WAY0.1KK SQUAREPINHEADERWITHLOCK		22-27-2021

Printed Circuit Board

Designator	Part Type	Part Name	Description
PCB	PCB	PCSD001-01	T2000 Board PCB (22-0092)

Capacitors Surface Mount

Designator	Part Type	Part Name	Description
C101	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C102	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C103	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C104	220pF	CAP0603COG221	CAP 0603 220pF COG 50V
C105	56pF	CAP0805NPO560	CAP 0805 56pF NPO 50V
C106	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C107	470pF	CAP0603COG471	CAP 0603 470pF COG 50V
C108	22pF	CAP0603COG220	CAP 0603 22pF COG 50V
C109	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C110	56pF	CAP0805NPO560	CAP 0805 56pF NPO 50V
C111	220pF	CAP0603COG221	CAP 0603 220pF COG 50V
C112	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C113	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C114	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C115	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C116	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C125	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C201	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C202	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C203	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C204	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C206	22µF	CAPCASEC226V6.3	CAP TANT 22µF 6V3
C207	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C208	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C209	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C210	220pF	CAP0603COG221	CAP 0603 220pF COG 50V
C211	220pF	CAP0603COG221	CAP 0603 220pF COG 50V
C212	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C301	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C401	2n2F	CAP0603X7R222	CAP 0603 2n2F X7R 50V
C402	2n2F	CAP0603X7R222	CAP 0603 2n2F X7R 50V
C403	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C404	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C501	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C503	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C504	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C506	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C507	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C513	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C701	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C702	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C703	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C704	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C705	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C706	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C707	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C708	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V

C709	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C710	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C711	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C712	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C714	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C715	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C716	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C717	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C801	22pF	CAP0603COG220	CAP 0603 22pF COG 50V
C802	22pF	CAP0603COG220	CAP 0603 22pF COG 50V
C803	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C804	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C805	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C810	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C811	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C812	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C813	4µ7F	CAPCASEA475V10	CAP TANT 4µ7F 10V A
C814	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C901	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C902	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C903	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C904	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C905	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C906	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C907	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C908	4µ7F	CAPCASEA475V10	CAP TANT 4µ7F 10V A
C909	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C910	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C911	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C912	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C913	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C914	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C915	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C916	4µ7F	CAPCASEA475V10	CAP TANT 4µ7F 10V A
C917	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C1001	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1002	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1003	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1004	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1005	22pF	CAP0603COG220	CAP 0603 22pF COG 50V
C1006	47pF	CAP0603COG470	CAP 0603 47pF COG 50V
C1007	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1008	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1011	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1013	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1014	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1017	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1101	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1102	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1201	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1202	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1204	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1206	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1207	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1208	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1209	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1210	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1212	1µ0F	CAP0805Y5V105	CAP 0805 1µ0F Y5V 16V
C1213	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1215	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1216	220µF	CAPCASEC227V6.3	CAP TANT 220µF 6V3 C
C1217	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1218	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1219	47µF	CAPCASEC476V6.3	CAP TANT 47µF 6V3 C
C1220	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1221	47µF	CAPCASEC476V6.3	CAP TANT 47µF 6V3 C
C1222	47µF	CAPCASEC476V6.3	CAP TANT 47µF 6V3 C
C1223	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1224	47nF	CAP0805X7R473	CAP 0805 47nF X7R 50V
C1225	47nF	CAP0805X7R473	CAP 0805 47nF X7R 50V
C1226	6n8F	CAP0805X7R682	CAP 0805 6n8F X7R 50V
C1227	6n8F	CAP0805X7R682	CAP 0805 6n8F X7R 50V
C1301	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V

C1302	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1303	47µF	CAPCASED476V20	CAP TANT 47µF 20V D
C1304	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1305	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1306	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1307	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1308	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1309	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1310	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1311	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1312	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1314	220pF	CAP0603COG221	CAP 0603 82pF COG 50V
C1316	22pF	CAP0603COG220	CAP 0603 22pF COG 50V
C1317	82pF	CAP0603NPO820	CAP 0603 82pF NPO 50V
C1318	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1319	10µF	CAPCASEC106V25	CAP TANT 10µF 25V C
C1320	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C1321	10µF	CAPCASEC106V25	CAP TANT 10µF 25V C

Diodes Surface Mount

Designator	Part Type	Part Name	Description	
D101	BAS16 200mA	DIOBAS16200MA	DIODE SWITCHING BAS16 SOT23	A6
D102	BAS16 200mA	DIOBAS16200MA	DIODE SWITCHING BAS16 SOT23	A6
D103	BAT54A	DISBAT54A	DIODE 2XSCHOTTKY BAT54A SOT23	L42
D105	MBRS130LT3	DISMBRS130LT3	DIODE SCHOT MBRS130LT3 30V 1A SMB	
D106	MBRS130LT3	DISMBRS130LT3	DIODE SCHOT MBRS130LT3 30V 1A SMB	
D201	MBRS130LT3	DISMBRS130LT3	DIODE SCHOT MBRS130LT3 30V 1A SMB	
D202	MBRS130LT3	DISMBRS130LT3	DIODE SCHOT MBRS130LT3 30V 1A SMB	
D203	MBRS130LT3	DISMBRS130LT3	DIODE SCHOT MBRS130LT3 30V 1A SMB	
D204	MBRS130LT3	DISMBRS130LT3	DIODE SCHOT MBRS130LT3 30V 1A SMB	
D205	BAT54A	DISBAT54A	DIODE 2XSCHOTTKY BAT54A SOT23	L42
D207	BZX84C4V7	DIZBZX84C4V7	DIODE ZENER 4.7V .3W BZX84C4V7 SOT23	Z1P
D801	BAR43S	DISBAR43S	DIODE 2XSCHOTTKY BAR43S SOT23	DA5
D1301	BAS16 200mA	DIOBAS16200MA	DIODE SWITCHING BAS16 SOT23	A6
D1302	BAS16 200mA	DIOBAS16200MA	DIODE SWITCHING BAS16 SOT23	A6
D1303	BAS16 200mA	DIOBAS16200MA	DIODE SWITCHING BAS16 SOT23	A6
D1304	BAS16 200mA	DIOBAS16200MA	DIODE SWITCHING BAS16 SOT23	A6

Fuses Surface Mount

Designator	Part Type	Part Name	Description	
F301	miniSMDC110	FUSESMRESET110	FUSE RESETTNG 1.1A miniSMDC110	1X1
F302	miniSMDC075	FUSESMRESET075	FUSE RESETTNG .75A miniSMDC075	7XL
F303	miniSMDC075	FUSESMRESET075	FUSE RESETTNG .75A miniSMDC075	7XL
F304	miniSMDC075	FUSESMRESET075	FUSE RESETTNG .75A miniSMDC075	7XL
F601	miniSMDC075	FUSESMRESET075	FUSE RESETTNG .75A miniSMDC075	7XL

Integrated Circuits Surface Mount

Designator	Part Type	Part Name	Description	
IC101	LTC1438	ICSWILTCT1438CG	IC DUAL SWITCHER LTC1438CG SSOP28	
IC201	LT1533	ICSWILT1533CS	IC SWITCHER LT1533CS SO16	
IC203	LTC1483CS8	ICCOMLTC1483CS8	IC RS485 XCEIVER LTC1483CS8 SO8	
IC204	MC14541BD	ICDIGMC14541BD	IC CMOS TIMER MC14541BD SO14	
IC205	MC14541BD	ICDIGMC14541BD	IC CMOS TIMER MC14541BD SO14	
IC206	1G00	ICDIGNC7S00M5	IC 1X NAND GATE NC7S00M5 SOT23-5PIN	
IC301	MC14504BD	ICDIGMC14504BD	IC 6X LEVEL SHIFTER MC14504BD SO16	
IC401	HC4053	ICANACD74HC4053M	IC 3X2CHAN ANA MUX CD74HC4053M SO16	
IC402	HC4053	ICANACD74HC4053M	IC 3X2CHAN ANA MUX CD74HC4053M SO16	
IC501	ACT245	ICDIGCD74ACT245M	IC 8X BUS XCEIVER CD74ACT245M SO20W	
IC504	ACT541	ICDIGCD74ACT541M	IC 8X BUS BUFFER CD74ACT541M SO20W	
IC506	ACT245	ICDIGCD74ACT245M	IC 8X BUS XCEIVER CD74ACT245M SO20W	
IC507	ACT541	ICDIGCD74ACT541M	IC 8X BUS BUFFER CD74ACT541M SO20W	
IC701	SAA7110A	ICVIDSAA7110AWP	IC VIDEO CHIP SAA7110AWP PLCC68	
IC702	LCX541	ICDIG74LCX541WM	IC 8X BUS BUFFER 74LCX541WM SO20W	
IC703	LCX541	ICDIG74LCX541WM	IC 8X BUS BUFFER 74LCX541WM SO20W	
IC704	LCX541	ICDIG74LCX541WM	IC 8X BUS BUFFER 74LCX541WM SO20W	
IC705	NC7SZ66	ICANANC7SZ66M5	IC 1X ANA GATE NC7SZ66 SOT23-5	7266B
IC706	NC7SZ66	ICANANC7SZ66M5	IC 1X ANA GATE NC7SZ66 SOT23-5	7266B
IC801	HD64F3334YF16	ICMICHHD64F3334YF16	IC MICRO HD64F3334YF16 QFP80.65MM	
IC802	AQY210S	ICOPTAQY210S	IC OPTO RELAY AQY210S SO8XX	210
IC808	MAX811L	ICRESMAX811LCUST	IC RESET MAX811LCUS-T SOT143	AMAA
IC811	LT1027ECS8	ICREFLT1027ECS8	IC V REF LT1027ECS8-5 SO8	1027E5
IC901	DS90C363	ICCOMDS90C363AMTD	IC LVDS XMITTER DS90C363AMTD TSSOP48	
IC1001	TL16C554FN	ICCOMTL16C554FN	IC 4X UART TL16C554FN PLCC68	

IC1002	MAX211	ICCOMMAX211ECAI	IC RS232 XCEIVER MAX211ECAI SSOP-28	
IC1004	ACT245	ICDIGCD74ACT245M	IC 8X BUS XCEIVER CD74ACT245M SO20W	
IC1101	GAL22V10	ICGALP5Z22V10-DA	IC CMOS PLD P5Z22V10-DA PLCC28 Programmed	
SK1101		SKTPLCC28	SOCKET IC PLCC-28 228-7161-75-1157	Socket for IC1101
IC1102	GAL22V10	ICGALP5Z22V10-DA	IC CMOS PLD P5Z22V10-DA PLCC28 Programmed	
SK1102		SKTPLCC28	SOCKET IC PLCC-28 228-7161-75-1157	Socket for IC1102
IC1201	LMC662	ICANALMC662CM	IC 2X OP AMP LMC662CM SO8	
IC1202	HC4066	ICANAMC74HC4066D	IC 4X ANA GATE MC74HC4066D SO14	
IC1204	LM4880	ICANALM4880M	IC 2X AUDIO AMP LM4880M SO8	
IC1223	LMC662	ICANALMC662CM	IC 2X OP AMP LMC662CM SO8	
IC1301	ZR78L05G	ICREGZR78L05G	IC V REG 5V ZR78L05G SOT223	
IC1302	HC688	ICDIGMM74HC688WM	IC 8BIT COMPARATOR MM74HC688WM SO20W	
IC1303	MC14541BD	ICDIGMC14541BD	IC CMOS TIMER MC14541BD SO14	
IC1304	74HCT132	ICDIG74HCT132D	IC 4XNAND GATE SCHMIDT 74HCT132D SO14	
IC1305	1G08	ICDIGNC7S08M5	IC 1XAND GATE NC7S08M5 SOT23-5	7S08
IC1308	4521	ICDIGHEF4521BT	IC F DIVIDER HEF4521BT SO16	
IC1309	29152	ICREGMIC29152BU	IC LDO V REG MIC29152BU TO263-5	
IC1310	29152	ICREGMIC29152BU	IC LDO V REG MIC29152BU TO263-5	
IC1311	1G00	ICDIGNC7S00M5	IC 1XNAND GATE NC7S00M5 SOT23-5	7S00
IC1312	1G14	ICDIGNC7S14M5	IC 1XNOT GATE SCHMIDT NC7S14M5 SOT23-5	7S14

Inductors Surface Mount

Designator	Part Type	Part Name	Description	
L701	10µH	IND3613SM10UH	IND 10µH 3613A100K 1812	100K
L900	CHOKEPLM	INDCMCHOKEPLM	IND COMMON MODE PLM250S30	
L1201	See resistor SM			
L1202	See resistor SM			

Resistors Surface Mount

Designator	Part Type	Part Name	Description	
R101	100R	RES0603SM101	RES 100R 1% TF 200ppm 0.063W 0603	101
R102	100R	RES0603SM101	RES 100R 1% TF 200ppm 0.063W 0603	101
R103	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R104	220K	RES0603SM224	RES 220K 1% TF 200ppm 0.063W 0603	224
R105	10R0	RES0603SM100	RES 10R0 1% TF 200ppm 0.063W 0603	100
R106	33K0	RES0603SM333	RES 33K0 1% TF 200ppm 0.063W 0603	333
R107	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R108	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603	102
R109	10R0	RES0603SM100	RES 10R0 1% TF 200ppm 0.063W 0603	100
R110	10R0	RES0603SM100	RES 10R0 1% TF 200ppm 0.063W 0603	100
R113	30K0	RES0603SM303	RES 30K0 1% TF 200ppm 0.063W 0603	303
R114	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R201	18K0	RES0603SM183	RES 18K0 1% TF 200ppm 0.063W 0603	183
R202	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R203	20K0	RES0805SM203	RES 20K0 5% TF 200ppm 0.1W 0805	203
R204	20K0	RES0805SM203	RES 20K0 5% TF 200ppm 0.1W 0805	203
R205	43K0	RES0805SM433	RES 43K0 5% TF 200ppm 0.1W 0805	433
R206	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603	102
R207	2K20	RES0603SM222	RES 2K20 1% TF 200ppm 0.063W 0603	222
R208	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R209	100K	RES0603SM104	RES 100K 1% TF 200ppm 0.063W 0603	
R210	220K	RES0603SM224	RES 220K 1% TF 200ppm 0.063W 0603	
R211	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	
R212	100K	RES0603SM104	RES 100K 1% TF 200ppm 0.063W 0603	
R219	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R401	2K20	RES0603SM222	RES 2K20 1% TF 200ppm 0.063W 0603	222
R402	2K20	RES0603SM222	RES 2K20 1% TF 200ppm 0.063W 0603	222
R403	3M30	RES1206SM335	RES 3M30 2% TF 0.125W 1206	335
R404	3M30	RES1206SM335	RES 3M30 2% TF 0.125W 1206	335
R502	680R	RES0603SM681	RES 680R 1% TF 200ppm 0.063W 0603	681
R504	680R	RES0603SM681	RES 680R 1% TF 200ppm 0.063W 0603	681
R601	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R602	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R603	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R604	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R605	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R606	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R607	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R608	220R	RES0603SM221	RES 220R 1% TF 200ppm 0.063W 0603	2200
R701	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603	102
R702	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603	102
R703	2K20	RES0603SM222	RES 2K20 1% TF 200ppm 0.063W 0603	222
R706	2K20	RES0603SM222	RES 2K20 1% TF 200ppm 0.063W 0603	222

R707	680K	RES0603SM684	RES 680K 1% TF 200ppm 0.063W 0603	684
R801	0R00	RES0603SM000	RES 0R00 1% TF 200ppm 0.063W 0603	000
R802	3K40p	RES0805P3401	RES 3K40 0.1% 10ppm 0.1W 0805	3401
R803	3K40p	RES0806P3401	RES 3K40 0.1% 10ppm 0.1W 0805	3401
R804	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R805	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R806	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R807	680R	RES0603SM681	RES 680R 1% TF 200ppm 0.063W 0603	681
R808	15K0	RES0603SM153	RES 15K0 1% TF 200ppm 0.063W 0603	153
R809	15K0	RES0603SM153	RES 15K0 1% TF 200ppm 0.063W 0603	153
R819	0R00	RES0603SM000	RES 0R00 1% TF 200ppm 0.063W 0603	000
R820	3M30	RES1206SM335	RES 3M30 2% TF 0.125W 1206	335
R821	100K	RES0603SM104	RES 100K 1%TF 200ppm 0.063W 0603	104
R822	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	
R823	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	
R1001	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R1002	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R1101	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1102	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1103	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1105	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1107	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1108	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1109	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1112	1M00	RES0603SM105	RES 1M00 1% TF 200ppm 0.063W 0603	
R1113	1K50	RES0603SM152	RES 1K50 1% TF 200ppm 0.063W 0603	
R1201	330K	RES0603SM334	RES 330K 1% TF 200ppm 0.063W 0603	334
R1206	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603	102
R1208	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603	102
R1209	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R1210	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1211	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1212	3K00	RES0603SM302	RES 3K00 1% TF 200ppm 0.063W 0603	302
R1213	180K	RES0603SM184	RES 180K 1% TF 200ppm 0.063W 0603	184
R1214	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1215	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1216	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R1220	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R1221	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R1222	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603	103
R1223	16K0	RES0805SM163	RES 16K0 1% TF 200ppm 0.1W 0805	
R1224	12K0	RES0805SM123	RES 12K0 1% TF 200ppm 0.1W 0805	
R1225	20K0	RES0805SM203	RES 20K0 1% TF 200ppm 0.1W 0805	
R1226	10K0	RES0805SM103	RES 10K0 1% TF 200ppm 0.1W 0805	
R1227	16K0	RES0805SM163	RES 16K0 1% TF 200ppm 0.1W 0805	
R1228	12K0	RES0805SM123	RES 12K0 1% TF 200ppm 0.1W 0805	
R1229	20K0	RES0805SM203	RES 20K0 1% TF 200ppm 0.1W 0805	
R1230	10K0	RES0805SM103	RES 10K0 1% TF 200ppm 0.1W 0805	
R1231	N/F			
R1232	10K0	RES0805SM103	RES 10K0 1% TF 200ppm 0.1W 0805	
R1233	10K0	RES0805SM103	RES 10K0 1% TF 200ppm 0.1W 0805	
R1301	470K	RES0603SM474	RES 470K 1% TF 200ppm 0.063W 0603	474
R1302	470K	RES0603SM474	RES 470K 1% TF 200ppm 0.063W 0603	474
R1303	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1304	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1305	10R0	RES0603SM100	RES 10R0 1% TF 200ppm 0.063W 0603	100
R1306	100K	RES0603SM104	RES 100K 1% TF 200ppm 0.063W 0603	(010)
R1307	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1308	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1309	1M50	RES1206SM155	RES 1M50 2% TF 0.125W 1206	(155)
R1310	56K0	RES0603SM563	RES 56K0 1% TF 200ppm 0.063W 0603	563
R1311	120K	RES0603SM124	RES 120K 1% TF 200ppm 0.063W 0603	124
R1312	1M00	RES0603SM105	RES 1M00 1% TF 200ppm 0.063W 0603	(310)
R1313	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603	102
R1314	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1315	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1316	470R	RES0603SM471	RES 470R 1% TF 200ppm 0.063W 0603	471
R1317	470R	RES0603SM471	RES 470R 1% TF 200ppm 0.063W 0603	471
R1318	750R	RES0805SM751	RES 750R 5% TF 200ppm 0.1W 0805	751
R1319	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603	473
R1320	N/F			
R1321	N/F			
R1322	N/F			

R1323	N/F				
R1324	N/F				
R1325	N/F				
R1326	6K80	RES0603SM682	RES 6K80 1% TF 200ppm 0.063W 0603		682
R1327	2K20	RES0603SM222	RES 2K20 1% TF 200ppm 0.063W 0603		222
R1328	22K0	RES0603SM223	RES 22K0 1% TF 200ppm 0.063W 0603		223
R1329	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603		102
R1330	2K70	RES0603SM272	RES 2K70 1% TF 200ppm 0.063W 0603		272
R1331	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603		473
R1332	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603		473
R1333	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603		473
R1334	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603		473
R1335	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603		473
R1336	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603		473
R1337	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603		102
L1201	470R	RES2012SM471	RES 470R 1% TF 0.5W 2010		
L1202	22R0	RES2012SM220	RES 22R0 1% TF 0.5W 2010		

Resistor Networks Surface Mount

Designator	Part Type	Part Name	Description	
RN501	470K	RESNET4SM474	4 X RES 470K 5% TF 200ppm 0.062W ARC 241	474
RN502	470K	RESNET4SM474	4 X RES 470K 5% TF 200ppm 0.062W ARC 241	474
RN503	470K	RESNET4SM474	4 X RES 470K 5% TF 200ppm 0.062W ARC 241	474
RN504	470K	RESNET4SM474	4 X RES 470K 5% TF 200ppm 0.062W ARC 241	474
RN701	22R0	RESNET4SM220	4 X RES 22R0 5% TF 200ppm 0.062W ARC 241	22R
RN702	22R0	RESNET4SM220	4 X RES 22R0 5% TF 200ppm 0.062W ARC 241	22R
RN703	22R0	RESNET4SM220	4 X RES 22R0 5% TF 200ppm 0.062W ARC 241	22R
RN704	22R0	RESNET4SM220	4 X RES 22R0 5% TF 200ppm 0.062W ARC 241	22R
RN705	22R0	RESNET4SM220	4 X RES 22R0 5% TF 200ppm 0.062W ARC 241	22R
RN801	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN802	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN803	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN804	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN805	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN806	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN807	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN808	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN809	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN810	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN812	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN813	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN814	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN815	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN816	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241	473
RN1001	470K	RESNET4SM474	4 X RES 470K 5% TF 200ppm 0.062W ARC 241	474
RN1002	470K	RESNET4SM474	4 X RES 470K 5% TF 200ppm 0.062W ARC 241	474
RN1201	10K0	RESNET4SM103	4 X RES 10K0 5% TF 200ppm 0.062W ARC 241	103

Suppressors Surface Mount

Designator	Part Type	Part Name	Description	
RV501	P3100SB	SURGEPROT	SURGE PROTECTOR P3100SB DO-214	P31BE9
RV502	P3100SB	SURGEPROT	SURGE PROTECTOR P3100SB DO-214	P31BE9

Switches Surface Mount

Designator	Part Type	Part Name	Description
SW1301	SW DIP-6	SWSM6P	SWITCH 6WAY DIL SM SO12 GDH06S

Transistors Surface Mount

Designator	Part Type	Part Name	Description	
TR101	IRLZ34NS	TRANFETIRLZ34NS	TRA N-FET LL IRLZ34NS D2PAK	
TR102	IRLZ34NS	TRANFETIRLZ34NS	TRA N-FET LL IRLZ34NS D2PAK	
TR103	IRLR024N	TRANFETIRLR024N	TRA N-FET LL IRLR24N TO252A	
TR104	IRLR024N	TRANFETIRLR024N	TRA N-FET LL IRLR24N TO252A	
TR105	ZVN3306F	TRANFETZVN3306F	TRA N-FET ZVN3306F SOT23	
TR201	BC846	TRABNPNBC846	TRA NPN GP BC846 SOT23	IDP
TR303	NDT456P	TRAPFETNDT456P	TRA P-FET NDT456P SOT223	456
TR304	NDT456P	TRAPFETNDT456P	TRA P-FET NDT456P SOT223	456
TR305	NDT452AP	TRAPFETNDT452AP	TRA P-FET NDT452AP SOT223	452A
TR306	NDT452AP	TRAPFETNDT452AP	TRA P-FET NDT452AP SOT223	452A
TR307	NDT456P	TRAPFETNDT456P	TRA P-FET NDT456P SOT223	456
TR308	NDT456P	TRAPFETNDT456P	TRA P-FET NDT456P SOT223	456
TR309	NDT452AP	TRAPFETNDT452AP	TRA P-FET NDT452AP SOT223	452A
TR310	NDT452AP	TRAPFETNDT452AP	TRA P-FET NDT452AP SOT223	452A

TR311	NDT455N	TRANFETNDT455N	TRA N-FET NDT455N SOT223	455
TR312	NDT452AP	TRAPFETNDT452AP	TRA P-FET NDT452AP SOT223	452A
TR1301	ZVN3306F	TRANFETZVN3306F	TRA N-FET ZVN3306F SOT23	MC
TR1302	ZVN3306F	TRANFETZVN3306F	TRA N-FET ZVN3306F SOT23	MC
TR1304	ZVN3306F	TRANFETZVN3306F	TRA N-FET ZVN3306F SOT23	MC
TR1305	ZVN3306F	TRANFETZVN3306F	TRA N-FET ZVN3306F SOT23	MC
TR1306	ZVN3306F	TRANFETZVN3306F	TRA N-FET ZVN3306F SOT23	MC
TR1307	ZVN3306F	TRANFETZVN3306F	TRA N-FET ZVN3306F SOT23	MC
TR1308	NDT452AP	TRAPFETNDT452AP	TRA P-FET NDT452AP SOT223	452A
TR1309	RF1S60P03SM	TRAPFETRF1S60P03SM	TRA P-FET RF1S60P03SM	
TR1310	NDT452AP	TRAPFETNDT452AP	TRA P-FET NDT452AP SOT223	452A

Crystals Surface Mount

Designator	Part Type	Part Name	Description
XTAL801	16MHz	XTL16.0MHZ	CRYSTAL 16MHz HC49/4HSMX
XTAL1301	32K768	XTL32.768KHZ	CRYSTAL 32K768Hz 90SMX

Capacitors Hand Fit

Designator	Part Type	Part Name	Description
C117	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C118	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C119	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C120	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C121	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C122	4µ7F	CAPOSCN475V16	CAP OSCON 47µF 16V 16SC4R7M
C127	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C128	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C129	100µF	CAPOSCN107V16	CAP OSCON 100µF 16V 16SA100M
C205	22µF	CAPOSCN226V10	CAP OSCON 22µF 10V 10SC22M

Integrated Circuits Hand Fit

Designator	Part Type	Part Name	Description
IC202	HCNW139	ICOPTHCNW139	IC OPTOCOUPLER HCNW139 DIP8W
IC502	SF336D	MODEMSF336DD5	MODEM SOCKETMODEM SF336DD5
IC503	SF336D	MODEMSF336DD5	MODEM SOCKETMODEM SF336DD5
IC509	LH1503	ICOPTLH1503AB	IC OPTO RELAY LH1503AB DIP8
IC511	LH1503	ICOPTLH1503AB	IC OPTO RELAY LH1503AB DIP8

Connectors Hand Fit

Designator	Part Type	Part Name	Description
J601&625	PC104-64		CON 32x2WAY TOBY FBS2-32-G-7.2/16.8/4.5
J602&626	PC104-40		CON 20x2WAY TOBY FBS2-20-G-7.2/16.8/4.5
J603	CON30W2MM		CON 30WAY2MMSTRAIGHTPINHEADER DF11-30DP-2DSA
J604	CON26W2MM		CON 26WAY2MMSTRAIGHTPINHEADER DF11-26DP-2DSA
J605	CON34W2MM		CON 20WAY2MMVERTICALHEADER 87089-2016
			CON 14WAY2MMVERTICALHEADER 87089-1416
J606	CON12W2MM		CON 12WAY2MMSTRAIGHTPINHEADER DF11-12DP-2DSA
J607	RDT 23-0035		SERIAL LOOM
J608	CON2W0.1"P.HDRRA		CON 2WAY0.1KKSQUAREPINHEADERWITHLOCK22-27-2021
J609	CON2W2.5MMPHDRRA		CON2WAY2.5MMKKRASQUAREPINHEADERWITHLOCK22-05-1022
J610	CON2W2.5MMMP.HDRRA		CON 2WAY2.5MMKKRASQUAREPINHEADERWITHLOCK22-05-1022
J611	CON2W0.1"P.HDRRA		CON 2WAY0.1KKRASQUAREPINHEADERWITHLOCK22-05-7028
J612	CON2W0.1"P/HDRRA		CON 2WAY0.1KKRASQUAREPINHEADERWITHLOCK22-05-7028
J613	CON3W2.5MMMP.HDRRA		CON 3WAY2.5MMKKRASQUAREPINHEADERWITHLOCK22-05-1032
J614	CON8W0.1"P.HDR		CON8WAY0.1KKSQUAREPINHEADER 22-03-2081
J615	CON2W0.2"P.HDRRA		CON 2WAY0.1KKRASQUAREPINHEADERWITHLOCK22-05-7028
J616	CON2W0.2"P.HDR		CON2WAY0.2TOPENTRYPCBHEADER-OPEN END SL5.08/2/180
J617	CON10W2MMMP.HDR		CON10WAY2MMVERTICALHEADER 87089-1016
J618	CON8W0.1"P.HDRELCO		CON8WAY0.1SINGLEROWIDCPCBHEADER 108284008000030
J619	CON8W0.1"P.HDRELCO		CON8WAY0.1SINGLEROWIDCPCBHEADER 108284008000030
J621	RDT 23-0038		CONNECTOR PLATE MAIN LOOM
J622	RDT 23-0037		CONNECTOR PLATE LVDS LOOM
J624	CON7W0.1FLEXI		CON8WAY0.1FLEXIVERTICALPCB SOCKET 1230-07-01-10
J627	CON4W1.5MM		CON4WAY1.5MMPINHEADERRASM S04B-ZR-SM3A-TF
J628	N/F		

Inductors Hand Fit

Designator	Part Type	Part Name	Description	
L101	10µH 7.5A	INDTOR10UH7.5A	IND 10µH 7.5A TOROID M119/050 (Assembly)	
L102	32µH 2.5A	INDTOR32UH2.5A	IND 32µH 2.5A TOROID M119/051 (Assembly)	
L103	1µ5H		IND 1µ5H 8.5A R622LY-1R5M	1R5M
L104	1µ5H		IND 1µ5H 8.5A R622LY-1R5M	1R5M

L105	10µH		IND 10µH 3A R622LY-100K	100K
L106	BNX002-1	INDCDFILTER	IND DC POWER FILTER BNX002-01	
L108	CHOKE CM	INDCMCHOKE3A	IND COMMON MODE 3A SH-302	
L201	0.5A CM	INDCMCHOKE0.5A	IND COMMON MODE .5A SBT-0180W	

Resistors Hand Fit

Designator	Part Type	Part Name	Description
R111	10mR	RESSR10R010	RES 10mR 1% 1W 200ppm KELVIN SENSE SR10
R112	40mR	RESSR10R040	RES 40mR 1% 1W 150ppm KELVIN SENSE SR10

Relay Hand Fit

Designator	Part Type	Part Name	Description
RL1301	RY2 12V		RELAY SPDT RY610012

Loudspeaker Hand Fit

Designator	Part Type	Part Name	Description
SPK1	NC-PCB-SPEAK	SPKSUBMINPCB	SPEAKER SUB-MIN PCB 41.T70P015H

Transformer Hand Fit

Designator	Part Type	Part Name	Description
T201	TRAN1TP1S	XFMRM5TPROBE	TRANSFORMER PCM SPECIAL 1253-E1093-2

Test Points Hand Fit

Designator	Part Type	Part Name	Description
TP1	0V	TESTPINPCB	TEST TERMINAL TH PCB RAISED LOOP RED
TP2	0V	TESTPINPCB	TEST TERMINAL TH PCB RAISED LOOP RED
TP3	N/F		
TP4	N/F		
TP5	N/F		
TP6	N/F		
TP7	N/F		
TP8	N/F		
TP9	N/F		
TP10	N/F		
TP11	N/F		
TP12	N/F		
TP13	N/F		
TP14	N/F		
TP15	N/F		
TP16	N/F		
TP17	N/F		
TP18	N/F		
TP19	N/F		
TP20	N/F		
TP21	N/F		
TP22	N/F		
TP23	N/F		
TP24	N/F		
TP25	N/F		

Crystals Hand Fit

Designator	Part Type	Part Name	Description
XTAL701	26.8MHz	XTL26.8MHZ	CRYSTAL 26.8MHz HC49/U
XTAL1001	1.8432MHz	XTL1.8432MHZ	CRYSTAL 1.8432MHz HC49/U

Inductor Assemblies

Designator	Part Type	Part Name	Description
L101	10µH 7.5A	INDTOR10UH7.5A	IND 10µH 7.5A TOROID M119/050 (Assembly)

Consists of: -

Part Name	Description
TOROID77314A7	TOROID KOOL Mµ 77314-A7
WIRECW1.25MM	WIRE ENAMMELLED COPPER 1.25MM (500MM LENGTH)

Designator	Part Type	Part Name	Description
L102	32µH 2.5A	INDTOR32UH2.5A	IND 32µH 2.5A TOROID M119/051 (Assembly)

Consists of: -

Part Name	Description
TOROID77314A7	TOROID KOOL Mµ 77314-A7
WIRECW1.0MM	WIRE ENAMMELLED COPPER 1.0MM (800MM LENGTH)

Modifications

Revision 00	Issue 1	None – First issue of revision 00		
Revision 00	Issue 2	CON7 was	SOP14-SM-0.1	becomes HARWIN M20-8760722
		CON11 was	SOP34-SM-0.1	becomes HARWIN M20-8761722

Printed Circuit Board

Designator	Part Type	Part Name	Description
PCB	PCB	PCSD002-00	Tempus 2000 Connector Plate PCB (22-0014)

Capacitors Surface Mount

Designator	Part Type	Part Name	Description
C5	N/F		
C6	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C7	100pF	CAP0603COG101	CAP 100p COG 50V
C8	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C9	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C10	N/F		
C11	N/F		
C12	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C13	N/F		
C14	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C15	100pF	CAP0603COG101	CAP 100p COG 50V
C16	N/F		
C17	N/F		
C18	N/F		
C19	N/F		
C20	N/F		
C21	N/F		
C22	N/F		
C23	N/F		
C24	100pF	CAP0603COG101	CAP 100p COG 50V
C25	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C26	N/F		
C27	N/F		
C28	N/F		
C29	N/F		
C30	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C31	100pF	CAP0603COG101	CAP 100p COG 50V
C32	N/F		
C33	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C34	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C35	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C36	N/F		
C37	N/F		
C38	N/F		
C39	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C40	1n0F	CAP0603X7R102	CAP 1nF X7R 50V
C41	10nF	CAP0603X7R103	CAP 10nF X7R 50V
C42	10nF	CAP0603X7R103	CAP 10nF X7R 50V

Inductors Surface Mount

Designator	Part Type	Part Name	Description
L1	SMRING/TIP	INDCMLINEDUAL	IND COMMON MODE DUAL TIP/RING TTTRF4000
L3	CHOKE PLM	INDCMCHOKEPLM	IND COMMON MODE PLM250S30

Integrated Circuit Surface Mount

Designator	Part Type	Part Name	Description
RT1	KTY13-6	ICSENKTY13-6	IC SENSE KTY13-6 1% 2K@25°C SOT-23

Capacitors Hand Fit

Designator	Part Type	Part Name	Description
C1	1000pF	CAPDISC1023KV	CAP 1n0F DISK 3KV ECKD3F102KBP
C2	1000pF	CAPDISC1023KV	CAP 1n0F DISK 3KV ECKD3F102KBP
C3	1000pF	CAPDISC1023KV	CAP 1n0F DISK 3KV ECKD3F102KBP
C4	1000pF	CAPDISC1023KV	CAP 1n0F DISK 3KV ECKD3F102KBP

Connectors Hand Fit *

Designator	Part Type	Part Name	Description
WRIST	DTYPE15WP	CON15WDTYPEPCBPLG	CON 15WAY DTYPE PLUG PCB DA15POL
LID	DTYPE15WS	CON15WDTYPEPCBSKT	CON 15WAY DTYPE SOCKET PCB DA15SOL
V&D	RJ45-8S	CON8RJSSK8EXSCRN	CON RJ SOCKET RJ45-8S SS650810SANF
THERM	RJ45-8S	CON8RJSSK8EXSCRN	CON RJ SOCKET RJ45-8S SS650810SANF

REMOTE DIAGNOSTIC TECHNOLOGIES LTD
TITLE: Connector Plate PCB Assembly (23-0018)
AUTHORISATION: ECR No: 02-0052
REFERENCE: PLSD002-00
PAGE: 2 of 2

PCB PARTS LIST

SECTION: PCB Design Package
DATE: 4th February 2003
ISSUE: 2

ECG	RJ45-8S	CON8RJSSK8EXSCRN	CON RJ SOCKET RJ45-8S SS650810SANF
SERIAL	RJ45-8S	CON8RJSSK8EXSCRN	CON RJ SOCKET RJ45-8S SS650810SANF
CON7	HEADER 7X2	CON7	CON HEADER 7x2 HARWIN M20-8760722
CON8	CON4	CON4W0.1KKRA	CON MINI KK 0.1" 4WAY RA 22-05-7048
CON10	CON3	CON3W0.1KKRA	CON MINI KK 0.1" 3WAY RA 22-05-7038
CON11	HEADER 17X2	CON11	CON HEADER 17X2 HARWIN M20-8761722

*NOTE: Some of the connectors are "surface mounted"

Mechanical

<u>Designator</u>		<u>Part Name</u>	<u>Description</u>
NUT1	NUT-PEM	NUTM3.0PEM-CLS-M3-2	NUT M3.0 SELF CLINCHING PEM CLS-M3-2
NUT2	NUT-PEM	NUTM3.0PEM-CLS-M3-2	NUT M3.0 SELF CLINCHING PEM CLS-M3-2
NUT3	NUT-PEM	NUTM3.0PEM-CLS-M3-2	NUT M3.0 SELF CLINCHING PEM CLS-M3-2
NUT4	NUT-PEM	NUTM3.0PEM-CLS-M3-2	NUT M3.0 SELF CLINCHING PEM CLS-M3-2
SCR1	SCREW	SCR3.0X06PH+SS	SCR M3.0X06MM PAN HEAD POSI SS
SCR2	SCREW	SCR3.0X06PH+SS	SCR M3.0X06MM PAN HEAD POSI SS
SCR3	SCREW	SCR3.0X06PH+SS	SCR M3.0X06MM PAN HEAD POSI SS
SCR4	SCREW	SCR3.0X06PH+SS	SCR M3.0X06MM PAN HEAD POSI SS
SLL1	SLIDELOCK	SLIDELOCKLAT	SLIDELOCK LATCH ML1-10
SLL2	SLIDELOCK	SLIDELOCKLAT	SLIDELOCK LATCH ML1-10
SLL3	SLIDELOCK	SLIDELOCKLAT	SLIDELOCK LATCH ML1-10
SLL4	SLIDELOCK	SLIDELOCKLAT	SLIDELOCK LATCH ML1-10
SPA1	SPACER	SPAM3.0X06HEXMF	SPACER HEX M-F 6MM R30-3000602
SPA2	SPACER	SPAM3.0X06HEXMF	SPACER HEX M-F 6MM R30-3000602
SPA3	SPACER	SPAM3.0X06HEXMF	SPACER HEX M-F 6MM R30-3000602
SPA4	SPACER	SPAM3.0X06HEXMF	SPACER HEX M-F 6MM R30-3000602
WAS1	WASHER	WASM3.0SPSS	WAS M3.0 SHAKEPROOF SS
WAS2	WASHER	WASM3.0SPSS	WAS M3.0 SHAKEPROOF SS
WAS3	WASHER	WASM3.0SPSS	WAS M3.0 SHAKEPROOF SS
WAS4	WASHER	WASM3.0SPSS	WAS M3.0 SHAKEPROOF SS

END

Modifications

Revision 00 Issue 1 None – First issue of revision 00
Revision 00 Issue 2 Addition of orientation note for J1

Printed Circuit Board

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
PCB	PCB	PCSD003-00	Tempus 2000 Wrist Mount PCB (22-0011)

Capacitors Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
C1	220nF	CAP1206Z5U224	CAP 220nF Z5U 1206
C2	100nF	CAP0805Z5U104	CAP 100nF Z5U 0805
C3	47µF	CAPCASEC476V6.3	CAP TANT 47µF 6V3 C
C6	10nF	CAP0603X7R103	CAP 10nF X7R 0603
C9	10µF	CAPCASEA106V6.3	CAP TANT 10µF 6V3 A
C10	100nF	CAP0805Z5U104	CAP 100nF Z5U 0805

Capacitor Networks Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
CN1	47pF	CAPNETNPO470	CAP NET 47pF NPO ARC241

Diodes Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
D1	BAT54A	DISBAT54A	DIODE 2XSCHOTTKY BAS54A SOT23

Integrated Circuits Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
IC1	LM340S50	ICREGLM340S50	IC V REG 5V LM340S50 TO263
IC2	UR5HCFJL11FB	ICDIGUR5HCFJL11FB	IC KEY ENCODER UR5HCFJL11FB QFP44
IC4	MAX811S	ICRESMAX811SEUST	IC RESET MAX811SEUST SOT143

Resistors Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
R1	150K	RES0603SM154	RES 150K 1% TF 200ppm 0.063W 0603
R2	15K0	RES0603SM153	RES 15K0 1% TF 200ppm 0.063W 0603
R3	1M00	RES0603SM105	RES 1M00 1% TF 200ppm 0.063W 0603
R4	15K0	RES0603SM153	RES 15K0 1% TF 200ppm 0.063W 0603
R5	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603
R6	2K20	RES0603SM222	RES 2K20 1% TF 200ppm 0.063W 0603
R7	0R00	RES0603SM000	RES 0R00 1% TF 200ppm 0.063W 0603
R8	0R00	RES0603SM000	RES 0R00 1% TF 200ppm 0.063W 0603
R9	0R00	RES0603SM000	RES 0R00 1% TF 200ppm 0.063W 0603

Resistor Networks Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
RN1	10K0	RESNET4SM103	4 X RES 10K0 5% TF 200ppm 0.62W ARC 241
RN2	15K0	RESNET4SM153	4 X RES 15K0 5% TF 200ppm 0.62W ARC 241
RN3	15K0	RESNET4SM153	4 X RES 15K0 5% TF 200ppm 0.62W ARC 241

Resonators Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
RES1	2MHz	XTAL2MHZRES	RESONATOR 2MHZ PBRC-2.00BR BRN

Capacitors Hand Fit

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
C4	22µF	CAPOSCN226V10	CAP OSCON 22µF 10V 10SC22M
C5	22µF	CAPOSCN226V20	CAP OSCON 22µF 20V 20SA22M

Connectors Hand Fit

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
J1	CON10	CON10WFLEXCABRA	CON 10WAY FLEXI CABLE 1230-10-01-20

Note that J1 orientation points into PCB

END

Modifications

Revision 00	Issue 1	None – First issue of revision 00
Revision 00	Issue 2	C5 22µF CAPOSCN226V20 CAP OSCON 22µF 20V 20SA22M omitted in error from parts list
Additional Notes for Assembly		
J1	10WAY FLEXI CABLE 1230-10-01-20	points into PCB
J2	6WAY 0.1" KK RA 22-05-7068	points into PCB
J6	2WAY 0.1" KK RA 22-05-7028	points out of PCB

Printed Circuit Board

Designator	Part Type	Part Name	Description
PCB	PCB	PCSD004-00	Tempus 2000 Lid Encoder PCB (22-0003)

Capacitors Surface Mount

Designator	Part Type	Part Name	Description
C1	100nF	CAP0805Z5U104	CAP 100nF Z5U 0805
C2	10µF	CAPCASEA106V6.3	CAP TANT 10µF 6V3 A
C3	10nF	CAP0603X7R103	CAP 10nF X7R 0603 50V
C4	10nF	CAP0603X7R103	CAP 10nF X7R 0603 50V

Capacitor Network Surface Mount

Designator	Part Type	Part Name	Description
CN1	47pF	CAPNETNPO470	CAP NET 47pF NPO ARC-241

Diodes Surface Mount

Designator	Part Type	Part Name	Description
D1	BAT54A	DISBAT54A	DIODE 2XSCHOTTKY BAS54A SOT23

Integrated Circuits Surface Mount

Designator	Part Type	Part Name	Description
IC1	UR5HCFJL11FB	ICDIGUR5HCFJL11FB	IC KEY ENCODER UR5HCFJL11FB QFP44
IC2	MAX811S	ICRESMAX811SEUST	IC RESET MAX811SEUST SOT143

Resistors Surface Mount

Designator	Part Type	Part Name	Description
R1	150K	RES0603SM154	RES 150K 1% TF 200ppm 0.063W 0603
R2	15K0	RES0603SM153	RES 15K0 1% TF 200ppm 0.063W 0603
R3	1M00	RES0603SM105	RES 1M00 1% TF 200ppm 0.063W 0603
R4	15K0	RES0603SM153	RES 15K0 1% TF 200ppm 0.063W 0603

Resistor Networks Surface Mount

Designator	Part Type	Part Name	Description
RN1	15K0	RESNET4SM153	4 X RES 15K0 5% TF 200ppm 0.62W ARC 241
RN2	15K0	RESNET4SM153	4 X RES 15K0 5% TF 200ppm 0.62W ARC 241
RN3	10K0	RESNET4SM103	4 X RES 10K0 5% TF 200ppm 0.62W ARC 241

Resonators Surface Mount

Designator	Part Type	Part Name	Description
RES1	2MHz	XTAL2MHZRES	RESONATOR 2MHZ PBRC-2.00BR BRN

Capacitors Hand Fit

Designator	Part Type	Part Name	Description
C5	22µF	CAPOSCN226V20	CAP OSCON 22µF 20V 20SA22M

Connectors Hand Fit

Designator	Part Type	Part Name	Description
J1	CON10	CON10WFLXECABRA	CON 10WAY FLEXI CABLE 1230-10-01-20
J2	CON6	CON6W0.1KKRA	CON 6WAY 0.1" KK RA 22-05-7068
J6	CON2	CON2W0.1KKRA	CON 2WAY 0.1" KK RA 22-05-7028

END

Modifications

Revision 00 Issue 1
Revision 00 Issue 2

None – First issue of revision 00
J2 was 10WAYTRANSCON10WPCBIDC is replaced by J3 connector S10B-ZR-SM3A-TF
(Note that this part does not fit the pads correctly; fit this part as best a possible.)
L1 Choke PLM250S30 was omitted in error from parts list

Printed Circuit Board

Designator	Part Type	Part Name	Description
PCB	PCB	PCSD005-00	Tempus 2000 Lid LVDS Board PCB (22-0002)

Capacitors Surface Mount

Designator	Part Type	Part Name	Description
C1	10µF	CAPCASEA106V6.3	CAP TANT 10µF 6V3 A
C2	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C3	1n0F	CAP0603X7R102	CAP 0603 1n0F X7R 50V
C4	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C5	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C6	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C7	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C8	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C9	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C10	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C11	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C12	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C13	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C14	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C15	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C16	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V
C17	10nF	CAP0603X7R103	CAP 0603 10nF X7R 50V

Connectors Surface Mount

Designator	Part Type	Part Name	Description
J3	10WAYTRANS	CON10WPCB	CONNECTOR 10WAY PCB S10B-ZR-SM3A-TF

Inductor Surface Mount

Designator	Part Type	Part Name	Description
L1	CHOKEPLM	INDCMCHOKEPLM	IND COMMON MODE PLM250S30

Integrated Circuits Surface Mount

Designator	Part Type	Part Name	Description
IC1	DS90CF364	ICCOMDS90CF364MTD	IC LVDS RX DS90CF364MTD TSSOP48

Connectors Surface Mount

Designator	Part Type	Part Name	Description
J1	SJ032521	CON40WAYS	Connector 40-way JAE SJ032521

Resistors Surface Mount

Designator	Part Type	Part Name	Description
R1	100R	RES0603SM101	RES 100R 1% TF 200ppm 0.063W 0603
R2	100R	RES0603SM101	RES 100R 1% TF 200ppm 0.063W 0603
R3	100R	RES0603SM101	RES 100R 1% TF 200ppm 0.063W 0603
R4	100R	RES0603SM101	RES 100R 1% TF 200ppm 0.063W 0603

END

Modifications

Revision 00	Issue 1	None – First issue of revision 00
Revision 01	Issue 1	Addition of C309 Up-issue PCB
Revision 01	Issue 2	Addition of Tinned Copper Wire IC 300 was PS300S becomes PS330S (typo) C303 was 100nF becomes Not Fit R315 RES0603SM471 added R316 RES0603SM471 added
Revision 01	Issue 3	IC302 was 25AA040-/SN becomes 25LC040-/SN
Revision 02	Issue 1	New PSU (many changes) see ECR 03-0018

Printed Circuit Board

Designator	Part Type	Part Name	Description
PCB	PCB	PCSD007-02	Tempus 2000 Gas Gauge PCB 02 (22-0127)

Capacitors Surface Mount

Designator	Part Type	Part Name	Description
C200	1µF 25V X7R	CAP1206X7R105	CAP 1µF 25V X7R
C201	1µ0F	CAPCASEA105V25ESR8	CAP 1µ0F 25V TANT 8.0ESR CASE A
C202	220nF 16V X7R	CAP1206X7R224	CAP 220nF X7R 16V 0805
C203	10pF	CAP0603COG100	CAP 10pF COG 50V 0603
C204	47µF	CAPCASEB476V6.3	CAP 47µF 6V3 TANT 0.5ESR CASE B
C307	47pF	CAP0603COG470	CAP 0603 47pF COG 50V
C308	47pF	CAP0603COG470	CAP 0603 47pF COG 50V
C309	22pF	CAP0603COG220	CAP 0603 22pF COG 50V

Capacitor Networks Surface Mount

Designator	Part Type	Part Name	Description
CN300	100nF	CAPNET4X7R104	CAPNET 4 X7R 100nF 16V

Diodes Surface Mount

Designator	Part Type	Part Name	Description	Code
D200	BAT54A	DISBAT54A	DIODE 2XSCHOTTKY BAT54A SOT23	L42
D201	ZHCS400TA	DISZHCS400TA	DIODE SCHOTTKY ZHCS400TA	
D202	ZHCS400TA	DISZHCS400TA	DIODE SCHOTTKY ZHCS400TA	
D300	LED-RED	LEDSMHERED	LED SM HIGH EFFICIENCY RED KA3528IT	
D301	LED-YELLOW	LEDSMYEL	LED SM SUPERBRIGHT YELLOW KA3528YT	
D302	LED-GREEN	LEDSMGREEN	LED SM SUPERBRIGHT GREEN KA3528SGT	
D303	BAT54A	DISBAT54A	DIODE 2XSCHOTTKY BAT54A SOT23	L42
D304	BAT54A	DISBAT54A	DIODE 2XSCHOTTKY BAT54A SOT23	L42

Integrated Circuits Surface Mount

Designator	Part Type	Part Name	Description
IC200	LT1934-1	ICSWILT1934ES6-1	IC SWITCHER LT1934ES6-1 S6
IC300	PS330S	ICGASPS330S	IC GAS GAUGE PS330S SSOP-28
IC301	74LVX132	ICDIG74LVX132M	IC 4XNAND GATE SCHMIDT 74LVX132M SO14
IC302	25LC040	ICMEM25LC040-/SN	IC SPI SERIAL EEPROM 512X8 SO-8

Inductors Surface Mount

Designator	Part Type	Part Name	Description	Code
L200	100µH	IND ELL6	IND 100µH 1R0 ELL6RH101M	

Resistors Surface Mount

Designator	Part Type	Part Name	Description	Code
R200	1M00	RES0603SM105	RES 1M00 1% TF 200ppm 0.063W 0603	
R201	820K	RES0603SM824	RES 820K 1% TF 200ppm 0.063W 0603	
R307	56R0	RES0603SM560	RES 56R0 1% TF 200ppm 0.063W 0603	560
R308	120R	RES0603SM121	RES 120R 1% TF 200ppm 0.063W 0603	121
R309	3K65p	RES0805P3651	RES 3K65 0.1% 10ppm 0.1W 0805	3651
R310	22mR	RES2512SMR022	RES 22mR 1% 1W 75ppm 2512	R022F
R311	120R	RES0603SM121	RES 120R 1% TF 200ppm 0.063W 0603	121
R312	470R	RES0603SM471	RES 470R 1% TF 200ppm 0.063W 0603	471
R313	56R0	RES0603SM560	RES 56R0 1% TF 200ppm 0.063W 0603	560
R314	56R0	RES0603SM560	RES 56R0 1% TF 200ppm 0.063W 0603	560
R315	470R	RES0603SM471	RES 470R 1% TF 200ppm 0.063W 0603	471
R316	470R	RES0603SM471	RES 470R 1% TF 200ppm 0.063W 0603	471

Resistor Networks Surface Mount

Designator	Part Type	Part Name	Description	Code
RN300	470R	RESNETSM471	4 X RES 470R 5% TF 200ppm 0.062W ARC 241	

REMOTE DIAGNOSTIC TECHNOLOGIES LTD
TITLE: Tempus 2000 Gas Gauge PCB Assembly (02) (23-0084)
AUTHORISATION: ECR No: 03-0018
REFERENCE: PLSD007-02
PAGE: 2 of 2

PCB PARTS LIST

SECTION: PCB Design Package
DATE: 20th June 2003
ISSUE: 1

RN301 470K RESNETSM474 4 X RES 470K 5% TF 200ppm 0.062W ARC 241

Switches Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
SW400	SM PUSH SWITCH	SWIPCBMOM	SWITCH PUSH SWITCH PCB MOUNT B3S-1000

Connectors Hand Fit

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
J400	20W0.1	CON20W0.1RASILHDR	CON 20WAY 0.1" PIN HEADER SIL RA M20-9963606

(FIT ON UNDERSIDE OF BOARD)

Crystals Hand Fit

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
X300	32768Hz	XTAL32.768KHZB	CRYSTAL 32K768HZ WATCH B

Wire Link Hand Fit

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
None	TCW 20AWG	WIRTCW20AWG	TINNED COPPER WIRE 20AWG (1MM)
None	TCW 20AWG	WIRTCW20AWG	TINNED COPPER WIRE 20AWG (1MM)
None	TCW 20AWG	WIRTCW20AWG	TINNED COPPER WIRE 20AWG (1MM)

(FIT FLUSH ON TOP SIDE OF BOARD, SOLDER TO TOP OF PADS ONLY, TRIM FLUSH)

END

REMOTE DIAGNOSTIC TECHNOLOGIES LTD
TITLE: Tempus 2000 Power PCB Assembly (23-0051)
AUTHORISATION: ECR No: 02-0052
REFERENCE: PLSD009-00
PAGE: 1 of 1

PCB PARTS LIST

SECTION: PCB Design Package
DATE: 4th February 2003
ISSUE: 2

Modifications

Revision 00 Issue 1 None – First issue of revision 00
Revision 00 Issue 2 J10 was CONN 3 PIN MODULAR BOURNS 70AA J-3-M0 becomes N/F

Printed Circuit Board

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
PCB	PCB	PCSD009-00	Tempus 2000 Power PCB (22-0029)

Connectors Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
J9	CONN 3 PIN MODULAR	CON3PINMOD	CONN 3 PIN MODULAR BOURNS 70AA J-3-M0
J10	N/F		
J11	CONN 2 PIN MODULAR	CON2PINMOD	CONN 2 PIN MODULAR BOURNS 70AA J-2-M0
J12	CONN 2 PIN MODULAR	CON2PIN MOD	CONN 2 PIN MODULAR BOURNS 70AA J-2-M0
J13	CONN 2 PIN MODULAR	CON2PIN MOD	CONN 2 PIN MODULAR BOURNS 70AA J-2-M0
J14	CONN 2 PIN MODULAR	CON2PIN MOD	CONN 2 PIN MODULAR BOURNS 70AA J-2-M0
J15	CONN 3 PIN MODULAR	CON3PIN MOD	CONN 3 PIN MODULAR BOURNS 70AA J-3-M0
J16	CON-GAS GAUGE	CON4W1.5MMSM	CONN 4 WAY 1.5MM SM JST S04B-ZR-SM3A-TF

END

Modifications

Revision 01 Issue 1

None – First issue (CardHost Build)

Printed Circuit Board

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
PCB	PCB	PCSD013-01	DSVD TEMPUS Board PCB (22-0117)

Capacitors Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
C101	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C102	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C103	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C104	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C105	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C106	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C107	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C108	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C109	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C110	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C111	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C112	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C113	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C114	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C115	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C201	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C202	1µ0F	CAP0603Y5V105	CAP 0603 1µ0F Y5V 10V
C203	1µ0F	CAP0603Y5V105	CAP 0603 1µ0F Y5V 10V
C204	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C205	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C206	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C207	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C208	47nF	CAP0603X7R473	CAP 0603 47nF X7R 25V
C209	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C210	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C211	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C212	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C213	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C301	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C302	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C303	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C304	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C305	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C306	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C307	10pF	CAP0603COG100	CAP 0603 10pF COG 50V
C308	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C400	N/F (0603)		
C401	N/F (0603)		
C402	N/F (0603)		
C403	N/F (0603)		
C404	N/F (0603)		
C405	2n2F	CAP0603X7R222	CAP 0603 2n2F X7R 50V
C406	47µF	CAPCASEC476V6.3	CAP TANT 47µF 6V3 C TAJC476K006X
C503	Fit R600 in this position		
C504	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V
C505	N/F (0603)		
C506	N/F (0603)		
C507	N/F (0603)		
C508	N/F (0603)		
C509	N/F (0603)		
C510	N/F (0603)		
C511	100nF	CAP0603Z5U104	CAP 0603 100nF Z5U 25V

Diodes Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
D301	BAR43S	DISBAR43S	DIODE 2XSCHOTTKY BAR43S SOT23
D302	BAR43S	DISBAR43S	DIODE 2XSCHOTTKY BAR43S SOT23
D303	BAR43S	DISBAR43S	DIODE 2XSCHOTTKY BAR43S SOT23
D304	BAR43S	DISBAR43S	DIODE 2XSCHOTTKY BAR43S SOT23
D305	BAR43S	DISBAR43S	DIODE 2XSCHOTTKY BAR43S SOT23

Fuses Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
F501	N/F		

Integrated Circuits Surface Mount

Designator	Part Type	Part Name	Description
IC101	NC7SZ04M5	ICDIGNC7SZ04M5	IC 1XINVERTER NC7SZ04M5 SOT23-5PIN
IC102	74HC132	ICDIG74HC132D	IC 4X NAND GATE SCHMIDT 74HC132D SO14
IC103	NC7SZ08M5	ICDIGNC7SZ08M5	IC 1XAND NC7SZ08M5 SOT23-5PIN
IC104	NC7SZ08M5	ICDIGNC7SZ08M5	IC 1XAND NC7SZ08M5 SOT23-5PIN
IC105	NC7SZ08M5	ICDIGNC7SZ08M5	IC 1XAND NC7SZ08M5 SOT23-5PIN
IC106	NC7SZ08M5	ICDIGNC7SZ08M5	IC 1XAND NC7SZ08M5 SOT23-5PIN
IC107	N/F	(SOT23-5PIN 1G08)	
IC108	NC7ST08	ICDIG74HCT1G08GW	IC 1XAND 74HCT1G08GW SOT23-5PIN
IC109	ZSR330G	ICREGZSR330G	IC V REG 3V3 ZSR330G SOT223
IC110	NC7ST08	ICDIG74HCT1G08GW	IC 1XAND 74HCT1G08GW SOT23-5PIN
IC111	NC7ST08	ICDIG74HCT1G08GW	IC 1XAND 74HCT1G08GW SOT23-5PIN
IC112	NC7ST08	ICDIG74HCT1G08GW	IC 1XAND 74HCT1G08GW SOT23-5PIN
IC113	NC7ST08	ICDIG74HCT1G08GW	IC 1XAND 74HCT1G08GW SOT23-5PIN
IC114	NC7ST08	ICDIG74HCT1G08GW	IC 1XAND 74HCT1G08GW SOT23-5PIN
IC201	NC7SZ04M5	ICDIGNC7SZ04M5	IC 1XINVERTER NC7SZ04M5 SOT23-5PIN
IC202	NC7SZ04M5	ICDIGNC7SZ04M5	IC 1XINVERTER NC7SZ04M5 SOT23-5PIN
IC203	16M384Hz	ICXTAIQXO-71-16M384Hz	IC CRYSTAL OSCILLATOR IQXO-71-16.384Mhz
IC204	NC7SZ66	ICANANC7SZ66M5	IC 1X ANA GATE NC7SZ66 SOT23-5
IC206	AD822AR	ICANA AD822AR	IC 2X OP AMP AD822AR SO8
IC207	AD73311	ICANAAD73311ARS	IC A/D-D/A AD73311ARS SSOIC-20
IC208	AMBE-2000	ICCOMAMBE-2000	IC VOICE CODEC AMBE-2000 TQFP-100
IC209	NC7SZ66	ICANANC7SZ66M5	IC 1X ANA GATE NC7SZ66 SOT23-5
IC301	18M432Hz NKS7	XTAL 18M432Hz	XTAL 18M432Hz NKS7-184-20
IC302	H8S/2357	ICMICH8S/2357	IC MICROCONTROLLER H8S/2357 TFP-120
IC303	MAX811L	ICRESMAX811LEUST	IC RESET MAX811LEUS-T SOT143
IC304	NC7SZ66	ICANANC7SZ66M5	IC 1X ANA GATE NC7SZ66 SOT23-5
IC400	N/F (SSOP24)		
IC501	N/F (SO20WB)		
IC502	NC7SZ04M5	ICDIGNC7SZ04M5	IC 1XINVERTER NC7SZ04M5 SOT23-5PIN
IC503	N/F		
IC504	N/F		
IC505	N/F		
IC506	74HC132	ICDIG74HC132D	IC 4X NAND GATE SCHMIDT 74HC132D SO14

LEDs Surface Mount

Designator	Part Type	Part Name	Description
LED501	LEDGREENSM	LED0805	LED GREEN 0805 TLGU1002
LED502	LEDGREENSM	LED0805	LED GREEN 0805 TLGU1002
LED503	N/F		
LED504	LEDGREENSM	LED0805	LED GREEN 0805 TLGU1002
LED505	LEDGREENSM	LED0805	LED GREEN 0805 TLGU1002
LED506	LEDGREENSM	LED0805	LED GREEN 0805 TLGU1002
LED507	LEDGREENSM	LED0805	LED GREEN 0805 TLGU1002

Resistors Surface Mount

Designator	Part Type	Part Name	Description
R201	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603
R202	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603
R203	470K	RES0603SM474	RES 470K 1% TF 200ppm 0.063W 0603
R204	33K0	RES0603SM333	RES 33K0 1% TF 200ppm 0.063W 0603
R205	100R	RES0603SM101	RES 100R 1% TF 200ppm 0.063W 0603
R206	10K0	RES0603SM103	RES 10K0 1% TF 200ppm 0.063W 0603
R207	330K	RES0603SM334	RES 330K 1% TF 200ppm 0.063W 0603
R209	470K	RES0603SM474	RES 470K 1% TF 200ppm 0.063W 0603
R210	100K	RES0603SM104	RES 100K 1% TF 200ppm 0.063W 0603
R211	22R0	RES0603SM220	RES 22R0 1% TF 200ppm 0.063W 0603
R212	N/F (0603)		
R213	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R214	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R215	N/F (0603)		
R216	N/F (0603)		
R301	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R302	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R303	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R304	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R305	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R306	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R307	47K0	RES0603SM473	RES 47K0 1% TF 200ppm 0.063W 0603
R501	0R00	RES0805SM000	RES 0R00 1% TF 200ppm 0.1W 0805
R502	0R00	RES0805SM000	RES 0R00 1% TF 200ppm 0.1W 0805
R503	0R00	RES0805SM000	RES 0R00 1% TF 200ppm 0.1W 0805

R504	0R00	RES0805SM000	RES 0R00 1% TF 200ppm 0.1W 0805
R505	0R00	RES0805SM000	RES 0R00 1% TF 200ppm 0.1W 0805
R506	N/F (0805)		
R507	0R00	RES0805SM000	RES 0R00 1% TF 200ppm 0.1W 0805
R508	N/F (0805)		
R509	N/F (0805)		
R510	N/F (0805)		
R511	N/F (0805)		
R512	N/F (0805)		
R521	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603
R522	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603
R523	N/F (0603)		
R524	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603
R525	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603
R526	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603
R527	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603
R571	N/F (0805)		
R572	N/F (0805)		
R573	N/F (0805)		
R574	N/F (0805)		
R575	N/F (0805)		
R576	N/F (0805)		
R577	N/F (0805)		
R578	N/F (0805)		
R600	1K00	RES0603SM102	RES 1K00 1% TF 200ppm 0.063W 0603 (in C503 position)

Resistor Networks Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
RN101	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN301	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN302	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN307	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN316	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN321	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN401	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN402	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN403	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN404	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241
RN405	47K0	RESNET4SM473	4 X RES 47K0 5% TF 200ppm 0.062W ARC 241

Transistors Surface Mount

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
TR301	ZVN3306F	TRANFETZVN3306F	TRANSISTOR N-FET ZVN3306F SOT23
TR501	NDT456P	TRAPFETNDT456P	TRANSISTOR P-FET NDT456P SOT223
TR502	N/F		

Connectors Hand Fit

(Please check orientation with built unit or photograph)

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
J100	CON6 S6B-ZR		CON 6WAY 1.5MM PCB SHROUDED HEADER S6B-ZR
J416	N/F		
J628	CON11X2W2MM		HEADER 11X2 22WAY2MM
J629	CON12W2MM		HEADER 12 WAY 2MM
J630	CON12W2MM		HEADER 12 WAY 2MM
J631	CON12W2MM		HEADER 12 WAY 2MM
JP501	N/F		

Modem Module Hand Fit

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
MODEM102	SF336D	MODEMSF336D SF336D	SOCKETMODEM SF336DD5 SF336D/SP-H0-D5

Resistors Hand Fit

<u>Designator</u>	<u>Part Type</u>	<u>Part Name</u>	<u>Description</u>
R601	1M00	RES0603SM105	RES 1M00 1% TF 200ppm 0.063W 0603

END