

## APPENDIX A: Micro908 Parts List

SMT Cards Bag		
<b>Resistor Card 1</b>		
1	R46	Resistor, 10, SMT, 1206
3	R11, R12, R14	Resistor, 49.9, SMT, 1206, 1%
1	R7	Resistor, 330, SMT, 1206
1	R8	Resistor, 1K, SMT, 1206
1	R6	Resistor, 4.3K, SMT, 1206
1	R44	Resistor, 4.7K, SMT, 1206
4	R37, R38, R39, R40	Resistor, 5.1K, SMT, 1206
12	R1, R2, R3, R4, R5, R17, R18, R22, R23, R27, R42, R48	Resistor, 10K, SMT, 1206
<b>Resistor Card 2</b>		
1	R41	Resistor, 10.0K, SMT, 1206, 1%
1	R28	Resistor, 22K, SMT, 1206, 1%
4	R10, R13, R15, R49	Resistor, 47K, SMT, 1206
3	R19, R24, R29	Resistor, 100K, SMT, 1206, 1%
3	R16, R21, R26	Resistor, 220K, SMT, 1206, 1%
2	R20, R30	Resistor, 221K, SMT, 1206, 1%
1	R25	Resistor, 549K, SMT, 1206, 1%
4	R32, R33, R34, R54	Resistor, 1M, SMT, 1206
<b>Capacitor &amp; Diode Card</b>		
2	C31, C32	Capacitor, 560 pF, SMT, 1206
6	C18, C20, C22, C23, C28, C40	Capacitor, 0.01 uF, SMT, 1206
18	C1, C2, C3, C4, C6, C11, C12, C13, C14, C15, C17, C19, C21, C35, C36, C37, C38, C39	Capacitor, 0.1 uF, SMT, 1206
2	C29, C30	Capacitor, 0.33 uF, SMT, 1206
8	D1, D2, D3, D4, D5, D6, D10, D11	Diode, Schottky, 1N5711, SMT
<b>Additions Card</b>		
1	R49	Resistor, 10K, SMT, 1206
1	R51	Resistor, 100K, SMT, 1206, 1%
1	R50	Resistor, 220K, SMT, 1206, 1%
1	R52	Resistor, 221K, SMT, 1206, 1%
1	C42	Capacitor, 0.01 uF, SMT, 1206
1	C41	Capacitor, 0.1 uF, SMT, 1206
2	D12, D13	Diode, Schottky, 1N5711, SMT

### Controls & Connectors Bag

1	J1	BNC, pcb mount
1	J2	Serial port connector, DB9F
1	ENC	Rotary Encoder
1	J4	Coaxial power connector, 2.1mm
1	J8	Socket, 1x12 pos'n (DSP out)
1	J9	Socket, 2x10 position, (DSP in)
1	J11	Mini-DIN, 6 pos'n (KBD)
3	J6, J7, J12	Audio jack, 1/8", pcb mount
1	J10	Socket, 1x8 pos'n, right angle
1	J14	Mini-Din, 8 pos'n (AUX)
1	W1	Jumper, Flexstrip, (LCD)
2	P1, P2	Pinheader, 2x34 (HC908) (cut 2 from 2x72 strip)
2	P3, P4	Pinheader, 1x2 pos'n (MON) (cut from 2x72 strip)
3	C7, C33, C34	Capacitor, 1 uF, Electrolytic, SMT
2	C5, C26	Capacitor, 10 uF, Electrolytic
1	C27	Capacitor, 47 uF, Electrolytic
1	C24	Capacitor, 100 uF, Electrolytic
1	R45	Potentiometer, 10K, miniature, pcb mount
1	S2	Slide switch, pcb mount, SPST
5	PB1, PB2, PB3, PB4, PB5	Pushbuttons, SPST, momentary contact
1	SPKR	Speaker, miniature, 32-ohm
5		Pushbutton caps (black)
1		Heatsink - TO220
1		Knob, 1/4"-dia shaft, (ENC)
1		Nut, zinc plated, 4-40 (U1)
1		Machine screw, zinc plated, round head, 4-40 x 0.5" (U1)
4		Spacer, nylon, hex tapped, 4-40x0.25" (LCD)
6		Spacer, nylon, hex tapped, 4-40x0.375" (PCB+DDS)
16		Machine screw, pan slotted, #4-40x0.25" (PCB+DDS+LCD)
4		Machine screw, flat slotted, #4-40x0.25" (PCB-cover)
2	Shunt	shunt, 0.1", 2 pos'n
1		Desoldering Braid
1		Solder, 63/37 Eutectic, No-Clean Flux, @28 ga.

### Battery Holder Bag

1	LCD	Display, LCD, Hantronix, 16x2 STN, GRAY
1	J3	Battery holder, 8-AA cells
1		Flux Pen, No-Clean

### Semiconductor Bag

1	U1	Voltage regulator, 3-terminal, 7805
1	U2	Memory, SEEPR0M, 512Mb
2	U3, U4	IC, Op Amp, LMC6484, SOIC
1	U5	IC, Audio Amp, LM386, SOIC
1	U6	IC, Level Translator, TC7SET08F, SOIC
1	LED1	LED, T1-3/4 (BUSY)
3	D7, D8, D9	Diode, Schottky, 1N5817, DO-41
1	Q1	Transistor, NPN, 2N3904, TO92

<b>PCB Bag</b>		
1	PCB	PC Board
<b>HC908 Daughtercard Bag (Optional)</b>		
1	HC908	HC908 Daughtercard assembly
<b>DSPx Daughtercard Bag (Optional)</b>		
1	DSPx	DSPx for Micro908 assembly
<b>DDS Daughtercard Kit Bag (Optional)</b>		
1	DDS Kit	DDS Daughtercard Kit
<b>Keyboard Cable Bag (Optional)</b>		
1	Cable	Keyboard extension cable (6')
<b>Keyboard (Optional)</b>		
1	Keyboard	Dauphin Mini Keyboard
<b>Enclosure (Optional)</b>		
1	Enclosure	Pac-Tec LH-57 Enclosure (pre-drilled)
<b>Overlay Bag (Included with Enclosure Option)</b>		
1	Front panel overlay	
1	Side panel overlay	
1	End panel overlay	
1	End panel (drilled)	
1	End panel (undrilled)	
4	Enclosure screws	
4	Enclosure rubber feet	