

Cotag International

Items List

Title	2 MB Memory Expansion PC Assembly				IL02-414	Issue	1
Drawn	RCB	Date	13-Mar-98	Checked	<i>KA</i>	Date	10-3-98
Mktg.		Date		Prod.	<i>Pholey</i>	Date	12/6/98
QA	<i>MJ04</i>	Date	18/6/98	Eng.	<i>Q1</i>	Date	12/6/98
Actioned	RCB	Date	13-Mar-98	Checked	<i>KA</i>	Date	10-3-98
Change Notes	Issued						
Used On	DL02-422						

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
1						-		
2			Printed Circuit Board Artworks	1		A02-440		
3						-		
4						-		
5	IC1		4Mbit SRAM	3		M194		
6	IC2		4Mbit SRAM	-		M194		
7	IC3		4Mbit SRAM	-		M194		
8						-		
9						-		
10	C1		100nF +-10% 100v Polyester Radial	3		C279		
11	C2		100nF +-10% 100v Polyester Radial	-		C279		
12	C3		100nF +-10% 100v Polyester Radial	-		C279		
13						-		
14						-		
15	CONN1		Header Right Angle 20 way	1		Y296		

Items List						Cotag International	
Title Mk2 Cotag Reader Module				IL02-415		Issue 2	
Drawn	CW	Date	16-Jul-98	Checked	<i>KJA</i>	Date	24-Jul-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned				CW	Date	16-Jul-98	Checked
				<i>KJA</i>	Date	24-Jul-98	Issue Date
Change Notes							
Used On				DL02-424			

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
1				-				
2				-				
3			Reader (Mark 2) Printed Circuit Board	1		A02-443		
4			Product label (Cotag version)	1		D02-1262		
5				-				
6	IC1		Not fitted					
7	IC2		Not fitted					
8	IC3		Not fitted					
9	IC4		Not fitted					
10	IC5	3-5A	74HC373 (Latch) SOIC	2		M184		
11	IC6	3-4A	74HC373 (Latch) SOIC	-		M184		
12	IC7	3-2A	ULN2803 Darlington Driver Array SM	1		N146		
13	IC8	3-3C	8 Bit Shift Register SOIC	1		M196		
14	IC9	3-3A	74HC273 (Latch) SOIC	1		M183		
15	IC10	3-4B	74HC155 (Steering) SOIC	1		M186		
16	IC11	3-6A	LM339 Quad Comparator SOIC	3		N142		
17	IC12	3-5C	LM339 Quad Comparator SOIC	-		N142		
18	IC13	3-5C	LM339 Quad Comparator SOIC	-		N142		
19	IC14		Not fitted					
20	IC15		Not fitted					
21	IC16		Not fitted					
22	IC17	3-2C	74HC00 (Gate) SOIC	1		M180		
23	IC18	3-4C	Triple 3-Input And Gate SOIC	1		M197		
24	IC19	3-3C	74HC04 (Gate) SOIC	2		M181		
25	IC20		Not fitted					
26	IC21	3-1B	74HC04 (Gate) SOIC	-		M181		
27								
28	L1	3-0B	220µH ±10% Inductor SM 1812	2		Q131		
29	L2	3-0B	220µH ±10% Inductor SM 1812	-		Q131		
30								
31	T1	2-0A	D.Z.R. Rx Transformer (Toroid)	2		D02-452		
32	T2	2-0B	D.Z.R. Rx Transformer (Toroid)	-		D02-452		
33	T3	2-7B	Tx Output Transformer 7:18			D02-819		
34	T4	2-7B	Tx Output Transformer 7:18			D02-819		
35								
36	D1		Not fitted					
37	D2	3-0B	5.6V Transient Suppressor SM 0805	5		J197		
38	D3	3-0B	5.6V Transient Suppressor SM 0805	-		J197		
39	D4		Not fitted					
40	D5		Not fitted					
41	D6		Not fitted					
42	D7	3-0B	5.6V Transient Suppressor SM 0805	-		J197		
43	D8	3-2D	5.6V Transient Suppressor SM 0805	-		J197		
44	D9		Not fitted					
45	D10		Not fitted					
46	D11	3-5A	14V Transient Suppressor SM 0805	12		J201		
47	D12	3-6B	14V Transient Suppressor SM 0805	-		J201		
48	D13	3-0C	BAS16 Small Signal Diode SM SOT23	2		J188		
49	D14	3-6C	BAS16 Small Signal Diode SM SOT23	-		J188		
50	D15	3-5D	14V Transient Suppressor SM 0805	-		J201		

Items List

Cotag International

Title	Mk2 Cotag Reader Module			IL02-415	Issue	2
Drawn	CW	Date	16-Jul-98	Checked	[Signature]	
Mktg.		Date		Prod.		
QA		Date		Eng.		
Actioned	CW	Date	16-Jul-98	Checked	[Signature]	
Change Notes						
Used On	DL02-424					

Item	Ident	M.L.	Description	Qty	Units	Part No.	Var	Remarks
53	D18	3-1D	14V Transient Suppressor SM 0805	-		J201		
54	D19	3-1D	14V Transient Suppressor SM 0805	-		J201		
55	D20	3-1D	14V Transient Suppressor SM 0805	-		J201		
56	D21	3-6D	14V Transient Suppressor SM 0805	-		J201		
57	D22	3-6D	14V Transient Suppressor SM 0805	-		J201		
58	D23	3-6D	14V Transient Suppressor SM 0805	-		J201		
59	D24	3-6D	14V Transient Suppressor SM 0805	-		J201		
60	D25	1-7D	3mm 2.3V 20mA LED Yellow Diffused	2		L108		
61	D26	1-0D	3mm 2.3V 20mA LED Yellow Diffused	-		L108		
62	D27	3-0A	5.6V Transient Suppressor SM 0805	-		J197		
63	D28		Not fitted			-		
64	D29		Not fitted			-		
65	D30	1-7D	BZW04P31 Transient Suppressor	4		J184		
66	D31	1-7D	BZW04P31 Transient Suppressor	-		J184		
67	D32	1-5B	BZW04P31 Transient Suppressor	-		J184		
68	D33	1-6B	BZW04P31 Transient Suppressor	-		J184		
69						-		
70						-		
71						-		
72						-		
73						-		
74						-		
75						-		
76						-		
77						-		
78						-		
79						-		
80						-		
81						-		
82						-		
83	TR1	3-2A	BC846B NPN Transistor SM	4		J194		
84	TR2	3-3B	BC846B NPN Transistor SM	-		J194		
85	TR3	1-7A	ZVN2106A FET	2		J159		
86	TR4	3-7B	NDS7002A N-Channel MOSFET SM SOT23	4		J202		
87	TR5	3-6B	NDS7002A N-Channel MOSFET SM SOT23	-		J202		
88	TR6	1-7A	ZVN2106A FET	-		J159		
89	TR7	3-7B	NDS7002A N-Channel MOSFET SM SOT23	-		J202		
90	TR8	3-7B	NDS7002A N-Channel MOSFET SM SOT23	-		J202		
91	TR9	3-0B	BC846B NPN Transistor SM	-		J194		
92	TR10	3-0B	BC846B NPN Transistor SM	-		J194		
93						-		
94						-		
95						-		
96						-		
97						-		
98						-		
99						-		
100	C1		Not fitted			-		
101	C2		Not fitted			-		
102	C3		Not fitted			-		
103	C4		Not fitted			-		

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Items List						Cotag International	
Title Mk2 Cotag Reader Module				IL02-415		Issue 2	
Drawn	CW	Date	16-Jul-98	Checked		Date	24-Jul-98
Mktg.		Date		Prod.		Approvals:	
QA		Date		Eng.			
Actioned	CW	Date	16-Jul-98	Checked		Date	24-Jul-98
Change Notes							
Used On DL02-424							

Item	Ident	M.L.	Description	Qty	Units	Part No.	Var	Remarks
105	C6		Not fitted			-		
106	C7		Not fitted			-		
107	C8		Not fitted			-		
108	C9		Not fitted			-		
109	C10		Not fitted			-		
110	C11		Not fitted			-		
111	C12		Not fitted			-		
112	C13		Not fitted			-		
113	C14		Not fitted			-		
114	C15	1-5C	1uF +-10% 63V Polyester Radial	4		C282		
115	C16	1-5C	1uF +-10% 63V Polyester Radial	-		C282		
116	C17	1-0D	1uF +-10% 63V Polyester Radial	-		C282		
117	C18	1-0C	1uF +-10% 63V Polyester Radial	-		C282		
118	C19	1-2A	100uF -10%+50% 16V Al Elect Radial	4		C159		
119	C20	1-0C	100uF -10%+50% 16V Al Elect Radial	-		C159		
120	C21	1-1A	100uF -10%+50% 16V Al Elect Radial	-		C159		
121	C22	3-2C	100nF +-10% 50v SM X7R 0805 NB	19		C306		
122	C23	3-3B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
123	C24	3-3C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
124	C25	3-3C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
125	C26	3-5C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
126	C27	3-4C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
127	C28	3-5A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
128	C29	3-7A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
129	C30	3-7A	22nF +-10% 50V SM X7R 0805 NB	4		C326		
130	C31	3-7A	2n2F +-5% 50v SM COG 1206 NB	4		C248		
131	C32	3-7A	220nF +-10% 50v SM X7R 1812 NB	2		C307		
132	C33	3-1C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
133	C34	3-7A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
134	C35	3-7A	22nF +-10% 50V SM X7R 0805 NB	-		C326		
135	C36	3-7A	2n2F +-5% 50v SM COG 1206 NB	-		C248		
136	C37	3-7A	220nF +-10% 50v SM X7R 1812 NB	-		C307		
137	C38	3-1C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
138	C39	3-1B	1nF +-5% 50v SM X7R 0805 NB	2		C309		
139	C40	3-1B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
140	C41	1-0C	6n8F +-10% 400V Polyester Radial	2		C283		
141	C42	3-0C	2n2F +-5% 50v SM COG 1206 NB	-		C248		
142	C43	3-0B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
143	C44	3-0C	22nF +-10% 50V SM X7R 0805 NB	-		C326		
144	C45	3-0B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
145	C46	3-0B	1nF +-5% 50v SM X7R 0805 NB	-		C309		
146	C47	3-0B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
147	C48	1-0A	6n8F +-10% 400V Polyester Radial	-		C283		
148	C49	3-0B	2n2F +-5% 50v SM COG 1206 NB	-		C248		
149	C50	3-0B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
150	C51	3-0A	22nF +-10% 50V SM X7R 0805 NB	-		C326		
151	C52	3-0B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
152	C53	1-1B	100uF -10%+50% 16V Al Elect Radial	-		C159		
153	C54	3-4A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
154	C55	3-5B	100nF +-10% 50v SM X7R 0805 NB	-		C306		

Items List		Cotag International							
Title		Mk2 Cotag Reader Module				IL02-415		Issue 2	
Drawn	CW	Date	16-Jul-98	Checked	KAV	Date	24-Jul-98	Approvals:	
Mktg.		Date		Prod.		Date			
QA		Date		Eng.		Date			
Actioned	CW	Date	16-Jul-98	Checked	KAV	Date	24-Jul-98	Issue Date	
Change Notes									
Used On		DL02-424							
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks	
157									
158									
159									
160	R1		Not fitted						
161	R2		Not fitted						
162	R3		Not fitted						
163	R4		Not fitted						
164	R5		Not fitted						
165	R6		Not fitted						
166	R7		Not fitted						
167	R8		Not fitted						
168	R9		Not fitted						
169	R10	3-5C	10K +-5% 0.1W 0805 SM NB	18		R306			
170	R11	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306			
171	R12		Not fitted						
172	R13		Not fitted						
173	R14		Not fitted						
174	R15		Not fitted						
175	R16		Not fitted						
176	R17		Not fitted						
177	R18		Not fitted						
178	R19		Not fitted						
179	R20		Not fitted						
180	R21	3-4B	10K +-5% 0.1W 0805 SM NB	-		R306			
181	R22	3-4C	10K +-5% 0.1W 0805 SM NB	-		R306			
182	R23	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306			
183	R24	3-4B	10K +-5% 0.1W 0805 SM NB	-		R306			
184	R25	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306			
185	R26	3-4B	10K +-5% 0.1W 0805 SM NB	-		R306			
186	R27	3-5D	2K7 +-5% 0.1W 0805 SM NB	4		R308			
187	R28	3-5D	2K7 +-5% 0.1W 0805 SM NB	-		R308			
188	R29	1-5C	100R +-5% 0.25W Carbon Film	4		R113			
189	R30	1-5C	100R +-5% 0.25W Carbon Film	-		R113			
190	R31	3-2B	10K +-5% 0.1W 0805 SM NB	-		R306			
191	R32	3-4A	10K +-5% 0.1W 0805 SM NB	-		R306			
192	R33	3-5A	10K +-5% 0.1W 0805 SM NB	-		R306			
193	R34	3-4A	10K +-5% 0.1W 0805 SM NB	-		R306			
194	R35	1-0C	100R +-5% 0.25W Carbon Film	-		R113			
195	R36	1-0C	100R +-5% 0.25W Carbon Film	-		R113			
196	R37	3-6A	2K7 +-5% 0.1W 0805 SM NB	-		R308			
197	R38	3-6A	2K7 +-5% 0.1W 0805 SM NB	-		R308			
198	R39	3-6A	1K0 +-1% 0.1W 0805 SM	1		R342			
199	R40	3-6A	3K3 +-1% 0.1W 0805 SM	1		R344			
200	R41	3-6A	270R +- 1% 0.1W 0805 SM Resistor	1		R341			
201	R42	3-6A	3K9 +-1% 0.1W 0805 SM	1		R345			
202	R43	3-6A	2K2 +/-1% 0.1W 0805 SM	1		R343			
203	R44	3-0D	1K +-5% 0.1W 0805 SM NB	4		R309			
204	R45	3-2A	1K +-5% 0.1W 0805 SM NB	-		R309			
205	R46	3-7D	1K +-5% 0.1W 0805 SM NB	-		R309			
206	R47	3-3B	1K +-5% 0.1W 0805 SM NB	-		R309			
207	R48							Deliberately Ommitted	

Items List						Cotag International	
Title Mk2 Cotag Reader Module				IL02-415		Issue 2	
Drawn	CW	Date	16-Jul-98	Checked	<i>KA</i>	Date	24-Jul-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned				CW	Date	16-Jul-98	Checked
				<i>KA</i>	Date	24-Jul-98	Issue Date
Change Notes							
Used On							
DL02-424							

Item	Ident	M.L	Description	Qty	Units	Part No.	Var	Remarks
209	R50					-		Deliberately Ommitted
210	R51					-		Deliberately Ommitted
211	R52					-		Deliberately Ommitted
212	R53					-		Deliberately Ommitted
213	R54					-		Deliberately Ommitted
214	R55					-		Deliberately Ommitted
215	R56	3-4C	10K +-5% 0.1W 0805 SM NB	-		R306		
216	R57	3-4C	10K +-5% 0.1W 0805 SM NB	-		R306		
217	R58	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306		
218	R59	3-2C	100K +-5% 0.1W 0805 SM NB	8		R329		
219	R60	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329		
220	R61	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329		
221	R62	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329		
222	R63		Not fitted			-		
223	R64	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329		
224	R65		Not fitted			-		
225	R66	3-2B	10K +-5% 0.1W 0805 SM NB	-		R306		
226	R67		Not fitted			-		
227	R68		Not fitted			-		
228	R69		Not fitted			-		
229	R70		Not fitted			-		
230	R71		Not fitted			-		
231	R72		Not fitted			-		
232	R73		Not fitted			-		
233	R74		Not fitted			-		
234	R75	3-7A	4K7 +-5% 0.1W 0805 SM NB	4		R307		
235	R76	3-1C	4K7 +-5% 0.1W 0805 SM NB	-		R307		
236	R77	3-1C	6K8 ±5% 0.1W 0805 SM	2		R333		
237	R78	3-7A	4K7 +-5% 0.1W 0805 SM NB	-		R307		
238	R79	3-2C	4K7 +-5% 0.1W 0805 SM NB	-		R307		
239	R80	3-2C	6K8 ±5% 0.1W 0805 SM	-		R333		
240	R81	3-1B	10K +-5% 0.1W 0805 SM NB	-		R306		
241	R82	3-1B	3K3 ±5% 0.1W 0805 SM	4		R332		
242	R83	3-0B	3K3 ±5% 0.1W 0805 SM	-		R332		
243	R84	3-0B	10K +-5% 0.1W 0805 SM NB	-		R306		
244	R85	3-0A	3K3 ±5% 0.1W 0805 SM	-		R332		
245	R86	3-0B	3K3 ±5% 0.1W 0805 SM	-		R332		
246	R87	1-7C	0 ohm link 0.25W	2		R266		
247	R88	1-2D	0 ohm link 0.25W	-		R266		
248	R89	3-0A	100R +-5% 0.1W 0805 SM NB	1		R310		
249	R90		Not fitted			-		
250	R91	3-2B	100K +-5% 0.1W 0805 SM NB	-		R329		
251	R92	3-5B	100K +-5% 0.1W 0805 SM NB	-		R329		
252	R93	3-5A	100K +-5% 0.1W 0805 SM NB	-		R329		
253						-		
254						-		
255						-		
256						-		
257						-		
258	REG1		Not fitted			-		
259	REG2		Not fitted			-		

Items List						Cotag International	
Title Mk2 Cotag Reader Module						IL02-415	
						Issue 2	
Drawn	CW	Date	16-Jul-98	Checked	<i>KAL</i>	Date	24-Jul-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned						Issue Date	
CW						16-Jul-98	
Checked						<i>KAL</i>	
Date						24-Jul-98	
Change Notes							
Used On							
DL02-424							
Item	Ident	M.I.	Description	Qty	Units	Part No.	Remarks
261						-	
262	RLY1	1-6C	2A 12V 720R SPCO Relay	2		E122	
263	RLY2	1-1C	2A 12V 720R SPCO Relay	-		E122	
264						-	
265						-	
266						-	
267	CONN1	1-7D	5 Way Terminal Block PCB Header	4		Y338	
268	CONN2	1-6D	5 Way Terminal Block PCB Header	-		Y338	
269	CONN3	1-5D	6 Way Terminal Block PCB Header	2		Y339	
270	CONN4	1-2D	5 Way Terminal Block PCB Header	-		Y338	
271	CONN5	1-1D	5 Way Terminal Block PCB Header	-		Y338	
272	CONN6	1-0D	6 Way Terminal Block PCB Header	-		Y339	
273	CONN7	1-2A	DIN 41612 Plug 64 Way	1		Y261	
274	CONN8	1-3B	20 Way (10 +10) Pin Header	1		Y342	
275			5 Way Plug Screw Free Polarized	4		Y340	CONN1,2,4,5
276			6 Way Plug Screw Free Polarized	2		Y341	CONN3,6
277			Jumper Pin 9 Way PCB Mt	3		Y189	Used for JU7
278			0.1" Pitch Jumper 2 Way	1		Y190	Used for JU7
279	JU1		Not fitted			-	
280	JU2		Not fitted			-	
281	JU3		Not fitted			-	
282	JU4		Not fitted			-	
283	JU5		Not fitted			-	
284	JU6		Not fitted			-	
285	JU7	1-2B	Jumper Pin 3 Way PCB Mt	-		Y189	
286						-	
287						-	
288		1-7C	Test Pin	1		Y299	0V test pin
289						-	
290						-	
291						-	
292						-	
293			Rivet Nylon	2		F261	For CONN7
294						-	
295						-	
296			Clamp Bracket (Cotag Version)	1		D02-1236	
297			Tape Polyester	0.2	m	F236	
298			Screw M2.5 x 6 Pan Pozi St/Zn	1		F227	
299			Washer M2 Nylon	1		F288	
300			Screw M3 x 6 Pan Pozi St/NiP	2		F102	
301			Washer M3 Shakeproof St/Zn	2		F166	
302			Nut M3 Full St/Zn	2		F137	
303			Screw M3 Special Slotted St/Stl	2		F257	
304			Washer M2.5 Plain Nylon	2		F258	

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Cotag International					
Items List		Title 16/8 I/O Module PCA		IL02-417	Issue 2
Drawn JBT	Date 11-May-98	Checked 	Date 27-Jul-98	Approvals:	
Mktg.	Date	Prod.	Date		
QA	Date	Eng.	Date		
Actioned JBT	Date 30-Jun-98	Checked 	Date 27-Jul-98	Issue Date 3 Aug 98	
Change Notes DRAWN					
Used On DL02-428					

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
1								
2			Printed Circuit Board	1		A02-444		
3			Product Label	1		D02-1264		
4								
5	IC1	3-5A	74HC155 (Steering) SOIC	1		M186		
6	IC2	3-3B	74HC273 (Latch) SOIC	1		M183		
7	IC3	3-4B	ULN2803 Darlington Driver Array SM	1		N146		
8	IC4	3-5A	8 Bit Shift Register SOIC	1		M196		
9	IC5	3-6C	74HC373 (Latch) SOIC	6		M184		
10	IC6	3-6C	74HC373 (Latch) SOIC	-		M184		
11	IC7	3-6B	LM339 Quad Comparator SOIC	12		N142		
12	IC8	3-5A	LM339 Quad Comparator SOIC	-		N142		
13	IC9	3-7B	74HC04 (Gate) SOIC	2		M181		
14	IC10	3-7A	LM339 Quad Comparator SOIC	-		N142		
15	IC11	3-7A	LM339 Quad Comparator SOIC	-		N142		
16	IC12	3-6A	LM339 Quad Comparator SOIC	-		N142		
17	IC13	3-6A	LM339 Quad Comparator SOIC	-		N142		
18	IC14	3-1C	74HC373 (Latch) SOIC	-		M184		
19	IC15	3-2C	74HC373 (Latch) SOIC	-		M184		
20	IC16	3-2A	LM339 Quad Comparator SOIC	-		N142		
21	IC17	3-2A	LM339 Quad Comparator SOIC	-		N142		
22	IC18	3-0A	LM339 Quad Comparator SOIC	-		N142		
23	IC19	3-0A	LM339 Quad Comparator SOIC	-		N142		
24	IC20	3-1A	LM339 Quad Comparator SOIC	-		N142		
25	IC21	3-1A	LM339 Quad Comparator SOIC	-		N142		
26	IC22	3-0B	74HC04 (Gate) SOIC	-		M181		
27	IC23	3-7C	74HC373 (Latch) SOIC	-		M184		
28	IC24	3-0C	74HC373 (Latch) SOIC	-		M184		
29								
30								
31	D1	3-5B	14V Transient Suppressor SM 0805	16		J201		
32	D2	3-6B	14V Transient Suppressor SM 0805	-		J201		
33	D3	3-6B	14V Transient Suppressor SM 0805	-		J201		
34	D4	3-6B	14V Transient Suppressor SM 0805	-		J201		
35	D5	3-6B	14V Transient Suppressor SM 0805	-		J201		
36	D6	3-7B	14V Transient Suppressor SM 0805	-		J201		
37	D7	3-7B	14V Transient Suppressor SM 0805	-		J201		
38	D8	3-7B	14V Transient Suppressor SM 0805	-		J201		
39	D9	3-0C	14V Transient Suppressor SM 0805	-		J201		
40	D10	3-0C	14V Transient Suppressor SM 0805	-		J201		
41	D11	3-0C	14V Transient Suppressor SM 0805	-		J201		
42	D12	3-0C	14V Transient Suppressor SM 0805	-		J201		
43	D13	3-1C	14V Transient Suppressor SM 0805	-		J201		
44	D14	3-1C	14V Transient Suppressor SM 0805	-		J201		
45	D15	3-1C	14V Transient Suppressor SM 0805	-		J201		
46	D16	3-1C	14V Transient Suppressor SM 0805	-		J201		
47								

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Items List						Cotag International		
Title		16/8 I/O Module PCA			IL02-417		Issue 2	
Drawn	JBT	Date	11-May-98	Checked		Date	27-Jun-98	
Mktg.		Date		Prod.		Date		
QA		Date		Eng.		Date		
Approvals:								
Actioned		JBT	Date	30-Jun-98	Checked		Date	27-Jun-98
Change Notes		DRAWN						
Used On		DL02-428						

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
50						-		
51	C1	1-5C	1uF +-10% 63V Polyester Radial	8		C282		
52	C2	1-5C	1uF +-10% 63V Polyester Radial	-		C282		
53	C3	1-4C	1uF +-10% 63V Polyester Radial	-		C282		
54	C4	1-4C	1uF +-10% 63V Polyester Radial	-		C282		
55	C5	1-3C	1uF +-10% 63V Polyester Radial	-		C282		
56	C6	1-3C	1uF +-10% 63V Polyester Radial	-		C282		
57	C7	1-2C	1uF +-10% 63V Polyester Radial	-		C282		
58	C8	1-2C	1uF +-10% 63V Polyester Radial	-		C282		
59	C9	3-5A	100nF +-10% 50v SM X7R 0805 NB	15		C306		
60	C10	3-3A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
61	C11	3-5A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
62	C12	3-5C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
63	C13	3-6B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
64	C14	3-7B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
65	C15	3-1C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
66	C16	3-1B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
67	C17	1-0A	100uF -10%+50% 16V Al Elect Radial	1		C159		
68	C18	3-0B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
69	C19	3-6B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
70	C20	3-7A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
71	C21	3-6A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
72	C22	3-2B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
73	C23	3-0A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
74	C24	3-1B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
75						-		
76						-		
77						-		
78						-		
79	R1	3-6A	1K0 +-1% 0.1W 0805 SM	2		R342		
80	R2	3-6B	3K3 +-1% 0.1W 0805 SM	2		R344		
81	R3	3-6B	270R +- 1% 0.1W 0805 SM Resistor	2		R341		
82	R4	3-6A	3K9 +-1% 0.1W 0805 SM	2		R345		
83	R5	3-7A	2K2 +/-1% 0.1W 0805 SM	2		R343		
84	R6	3-2A	1K0 +-1% 0.1W 0805 SM	-		R342		
85	R7	3-0A	3K3 +-1% 0.1W 0805 SM	-		R344		
86	R8	3-0A	270R +- 1% 0.1W 0805 SM Resistor	-		R341		
87	R9	3-2A	3K9 +-1% 0.1W 0805 SM	-		R345		
88	R10	3-0A	2K2 +/-1% 0.1W 0805 SM	-		R343		
89	R11	3-0B	10K +-5% 0.1W 0805 SM NB	32		R306		
90	R12	3-0C	10K +-5% 0.1W 0805 SM NB	-		R306		
91	R13	3-2B	10K +-5% 0.1W 0805 SM NB	-		R306		
92	R14	3-0B	10K +-5% 0.1W 0805 SM NB	-		R306		
93	R15	3-0B	10K +-5% 0.1W 0805 SM NB	-		R306		
94	R16	3-0B	10K +-5% 0.1W 0805 SM NB	-		R306		
95	R17	3-0B	10K +-5% 0.1W 0805 SM NB	-		R306		
96	R18	3-0B	10K +-5% 0.1W 0805 SM NB	-		R306		
97	R19	3-2C	10K +-5% 0.1W 0805 SM NB	-		R306		

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Items List

Cotag International

Title	16/8 I/O Module PCA				IL02-417	Issue	2
Drawn	JBT	Date	11-May-98	Checked	<i>[Signature]</i>	Date	27-Jun-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	

Approvals:

Actioned	JBT	Date	30-Jun-98	Checked	<i>[Signature]</i>	Date	27-Jun-98	Issue Date	3 Aug. 98
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Change Notes DRAWN

Used On DL02-428

Item	Ident	M.L.	Description	Qty	Units	Part No.	Var	Remarks
99	R21	3-2B	10K +5% 0.1W 0805 SM NB	-		R306		
100	R22	3-1B	10K +5% 0.1W 0805 SM NB	-		R306		
101	R23	3-1B	10K +5% 0.1W 0805 SM NB	-		R306		
102	R24	3-1B	10K +5% 0.1W 0805 SM NB	-		R306		
103	R25	3-0B	10K +5% 0.1W 0805 SM NB	-		R306		
104	R26	3-0A	10K +5% 0.1W 0805 SM NB	-		R306		
105	R27	3-0C	2K7 +5% 0.1W 0805 SM NB	16		R308		
106	R28	3-0C	2K7 +5% 0.1W 0805 SM NB	-		R308		
107	R29	3-0C	2K7 +5% 0.1W 0805 SM NB	-		R308		
108	R30	3-0C	2K7 +5% 0.1W 0805 SM NB	-		R308		
109	R31	3-1C	2K7 +5% 0.1W 0805 SM NB	-		R308		
110	R32	3-1C	2K7 +5% 0.1W 0805 SM NB	-		R308		
111	R33	3-1C	2K7 +5% 0.1W 0805 SM NB	-		R308		
112	R34	3-1C	2K7 +5% 0.1W 0805 SM NB	-		R308		
113	R35	3-2C	22K 1% 0.1W 0805 SM	32		R335		
114	R36	3-1C	22K 1% 0.1W 0805 SM	-		R335		
115	R37	3-1C	22K 1% 0.1W 0805 SM	-		R335		
116	R38	3-1C	22K 1% 0.1W 0805 SM	-		R335		
117	R39	3-1C	22K 1% 0.1W 0805 SM	-		R335		
118	R40	3-1C	22K 1% 0.1W 0805 SM	-		R335		
119	R41	3-1C	22K 1% 0.1W 0805 SM	-		R335		
120	R42	3-1C	22K 1% 0.1W 0805 SM	-		R335		
121	R43	3-0C	22K 1% 0.1W 0805 SM	-		R335		
122	R44	3-0C	22K 1% 0.1W 0805 SM	-		R335		
123	R45	3-0C	22K 1% 0.1W 0805 SM	-		R335		
124	R46	3-0C	22K 1% 0.1W 0805 SM	-		R335		
125	R47	3-0C	22K 1% 0.1W 0805 SM	-		R335		
126	R48	3-0C	22K 1% 0.1W 0805 SM	-		R335		
127	R49	3-0C	22K 1% 0.1W 0805 SM	-		R335		
128	R50	3-0C	22K 1% 0.1W 0805 SM	-		R335		
129	R51	3-7C	10K +5% 0.1W 0805 SM NB	-		R306		
130	R52	3-7C	10K +5% 0.1W 0805 SM NB	-		R306		
131	R53	3-7B	10K +5% 0.1W 0805 SM NB	-		R306		
132	R54	3-7C	10K +5% 0.1W 0805 SM NB	-		R306		
133	R55	3-6B	10K +5% 0.1W 0805 SM NB	-		R306		
134	R56	3-6B	10K +5% 0.1W 0805 SM NB	-		R306		
135	R57	3-7B	10K +5% 0.1W 0805 SM NB	-		R306		
136	R58	3-7B	10K +5% 0.1W 0805 SM NB	-		R306		
137	R59	3-6B	10K +5% 0.1W 0805 SM NB	-		R306		
138	R60	3-7A	10K +5% 0.1W 0805 SM NB	-		R306		
139	R61	3-5A	10K +5% 0.1W 0805 SM NB	-		R306		
140	R62	3-6B	10K +5% 0.1W 0805 SM NB	-		R306		
141	R63	3-6A	10K +5% 0.1W 0805 SM NB	-		R306		
142	R64	3-6A	10K +5% 0.1W 0805 SM NB	-		R306		
143	R65	3-7A	10K +5% 0.1W 0805 SM NB	-		R306		
144	R66	3-7A	10K +5% 0.1W 0805 SM NB	-		R306		
145	R67	3-6C	2K7 +5% 0.1W 0805 SM NB	-		R308		

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Cotag International

Items List

Title	16/8 I/O Module PCA				IL02-417	Issue	2
Drawn	JBT	Date	11-May-98	Checked	18/6	Date	27-Jul-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned	JBT	Date	30-Jun-98	Checked	18/6	Date	27-Jul-98
Issue Date	3 Aug 98						

Change Notes DRAWN

Used On DL02-428

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
148	R70	3-6C	2K7 +5% 0.1W 0805 SM NB	-		R308		
149	R71	3-7C	2K7 +5% 0.1W 0805 SM NB	-		R308		
150	R72	3-7C	2K7 +5% 0.1W 0805 SM NB	-		R308		
151	R73	3-7C	2K7 +5% 0.1W 0805 SM NB	-		R308		
152	R74	3-7C	2K7 +5% 0.1W 0805 SM NB	-		R308		
153	R75	3-7C	22K 1% 0.1W 0805 SM	-		R335		
154	R76	3-6B	22K 1% 0.1W 0805 SM	-		R335		
155	R77	3-6B	22K 1% 0.1W 0805 SM	-		R335		
156	R78	3-6B	22K 1% 0.1W 0805 SM	-		R335		
157	R79	3-6B	22K 1% 0.1W 0805 SM	-		R335		
158	R80	3-6B	22K 1% 0.1W 0805 SM	-		R335		
159	R81	3-6B	22K 1% 0.1W 0805 SM	-		R335		
160	R82	3-6B	22K 1% 0.1W 0805 SM	-		R335		
161	R83	3-6B	22K 1% 0.1W 0805 SM	-		R335		
162	R84	3-6B	22K 1% 0.1W 0805 SM	-		R335		
163	R85	3-7B	22K 1% 0.1W 0805 SM	-		R335		
164	R86	3-7B	22K 1% 0.1W 0805 SM	-		R335		
165	R87	3-7B	22K 1% 0.1W 0805 SM	-		R335		
166	R88	3-7B	22K 1% 0.1W 0805 SM	-		R335		
167	R89	3-7B	22K 1% 0.1W 0805 SM	-		R335		
168	R90	3-7B	22K 1% 0.1W 0805 SM	-		R335		
169						-		
170						-		
171						-		
172						-		
173	RN1	1-2D	100Rx4 +5% 0.30W SIL	2		R275		
174	RN2	1-4D	100Rx4 +5% 0.30W SIL	-		R275		
175						-		
176						-		
177	RLY1	1-2B	2A 12V 720R SPCO Relay	8		E122		
178	RLY2	1-2B	2A 12V 720R SPCO Relay	-		E122		
179	RLY3	1-3B	2A 12V 720R SPCO Relay	-		E122		
180	RLY4	1-3B	2A 12V 720R SPCO Relay	-		E122		
181	RLY5	1-4B	2A 12V 720R SPCO Relay	-		E122		
182	RLY6	1-4B	2A 12V 720R SPCO Relay	-		E122		
183	RLY7	1-5B	2A 12V 720R SPCO Relay	-		E122		
184	RLY8	1-5B	2A 12V 720R SPCO Relay	-		E122		
185						-		
186						-		
187	CONN1	1-7D	Header Socket 6 Way Horizontal	4		Y339		
188	CONN2	1-6D	Header Socket 6 Way Horizontal	-		Y339		
189	CONN3	1-4D	Header Socket 8 Way Horizontal	2		Y345		
190	CONN4	1-3D	Header Socket 8 Way Horizontal	-		Y345		
191	CONN5	1-1D	Header Socket 6 Way Horizontal	-		Y339		
192	CONN6	1-0D	Header Socket 6 Way Horizontal	-		Y339		
193	CONN7	1-1A	Plug 64 Way DIN 41612	1		Y261		
194	CONN8	1-6D	Pin Header 16 way 2mm pitch	3		Y343		
195	CONN9	1-3D	Pin Header 16 way 2mm pitch	-		Y343		

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Items List

Cotag International

Title 16/8 I/O Module PCA		IL02-417		Issue 2	
Drawn JBT	Date 11-May-98	Checked <i>KH</i>	Date 27-Jun-98	Approvals:	
Mktg.	Date	Prod.	Date		
QA	Date	Eng.	Date		
Actioned JBT	Date 30-Jun-98	Checked <i>KH</i>	Date 27-Jun-98	Issue Date 3 Aug 98	

Change Notes DRAWN

Used On DL02-428

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
197								
198			Plug 6 Way Free Polarized	4		Y341		
199			Plug 8 Way Free Polarized	2		Y346		
200								
201								
202			Jumper Pins	60		Y189		JU1 - JU20
203			Microshunt Jumpers	8		Y226		JU1 - JU8
204			Jumpers	12		Y190		JU9 - JU20
205								
206	JU1	1-5C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 1
207	JU2	1-5C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 2
208	JU3	1-4C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 3
209	JU4	1-4C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 4
210	JU5	1-3C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 5
211	JU6	1-3C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 6
212	JU7	1-2C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 7
213	JU8	1-2C	3 Pin Jumper	-		Y189		N.C. / N.O. Output 8
214	JU9	1-4B	3 Pin Jumper	-		Y189		O2 Independent / as O1
215	JU10	1-3B	3 Pin Jumper	-		Y189		O4 Independent / as O3
216	JU11	1-3B	3 Pin Jumper	-		Y189		O6 Independent / as O5
217	JU12	1-3B	3 Pin Jumper	-		Y189		O8 Independent / as O7
218	JU13	1-7B	3 Pin Jumper	-		Y189		I1 (even) N.O. / N.C.
219	JU14	1-7B	3 Pin Jumper	-		Y189		I2 (even) N.O. / N.C.
220	JU15	1-6B	3 Pin Jumper	-		Y189		I3 (even) N.O. / N.C.
221	JU16	1-6B	3 Pin Jumper	-		Y189		I4 (even) N.O. / N.C.
222	JU17	1-1B	3 Pin Jumper	-		Y189		I1 (odd) N.O. / N.C.
223	JU18	1-1B	3 Pin Jumper	-		Y189		I2 (odd) N.O. / N.C.
224	JU19	1-1B	3 Pin Jumper	-		Y189		I3 (odd) N.O. / N.C.
225	JU20	1-0B	3 Pin Jumper	-		Y189		I4 (odd) N.O. / N.C.
226								
227								
228			Rivet Nylon	2		F261		
229								
230								
231			Clamp Bracket	1		D02-1247		
232			Tape Polyester	0.2	m	F236		
233			Rivet Snap Nylon	1		F255		
234			Screw M3 x 6 Pan Pozi St/NiP	2		F102		
235			Washer M3 Shakeproof	2		F166		
236			Nut M3 Full	2		F137		
237			Special Screw M3 x 8.3 S/Steel	2		F257		
238			Washer M2.5 Plain Nylon	2		F258		
239								

Items List

Cotag International

Title	I/O Status Display Module PCA				IL02-418	Issue	2	
Drawn	JBT	Date	11-May-98	Checked	<i>[Signature]</i>	Date	27-Jul-98	
Mktg.		Date		Prod.		Date		
QA		Date		Eng.		Date		
Actioned						JBT	Date	01-Jul-98
Checked						<i>[Signature]</i>	Date	27-Jul-98
Issue Date						3 Aug 98		

Change Notes DRAWN

Used On DL02-429

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
1						-		
2			Printed Circuit Board	1		A02-445		
3						-		
4	D1		3mm Amber LED Low Current	24		L155		
5	D2		3mm Amber LED Low Current	-		L155		
6	D3		3mm Amber LED Low Current	-		L155		
7	D4		3mm Amber LED Low Current	-		L155		
8	D5		3mm Amber LED Low Current	-		L155		
9	D6		3mm Amber LED Low Current	-		L155		
10	D7		3mm Amber LED Low Current	-		L155		
11	D8		3mm Amber LED Low Current	-		L155		
12	D9		3mm Red LED Low Current	16		L156		
13	D10		3mm Red LED Low Current	-		L156		
14	D11		3mm Red LED Low Current	-		L156		
15	D12		3mm Red LED Low Current	-		L156		
16	D13		3mm Red LED Low Current	-		L156		
17	D14		3mm Red LED Low Current	-		L156		
18	D15		3mm Red LED Low Current	-		L156		
19	D16		3mm Red LED Low Current	-		L156		
20	D17		3mm Amber LED Low Current	-		L155		
21	D18		3mm Amber LED Low Current	-		L155		
22	D19		3mm Amber LED Low Current	-		L155		
23	D20		3mm Amber LED Low Current	-		L155		
24	D21		3mm Amber LED Low Current	-		L155		
25	D22		3mm Amber LED Low Current	-		L155		
26	D23		3mm Amber LED Low Current	-		L155		
27	D24		3mm Amber LED Low Current	-		L155		
28	D25		3mm Amber LED Low Current	-		L155		
29	D26		3mm Amber LED Low Current	-		L155		
30	D27		3mm Amber LED Low Current	-		L155		
31	D28		3mm Amber LED Low Current	-		L155		
32	D29		3mm Amber LED Low Current	-		L155		
33	D30		3mm Amber LED Low Current	-		L155		
34	D31		3mm Amber LED Low Current	-		L155		
35	D32		3mm Amber LED Low Current	-		L155		
36	D33		3mm Red LED Low Current	-		L156		
37	D34		3mm Red LED Low Current	-		L156		
38	D35		3mm Red LED Low Current	-		L156		
39	D36		3mm Red LED Low Current	-		L156		
40	D37		3mm Red LED Low Current	-		L156		
41	D38		3mm Red LED Low Current	-		L156		
42	D39		3mm Red LED Low Current	-		L156		
43	D40		3mm Red LED Low Current	-		L156		
44						-		
45						-		
46	RN1		47Kx4 +-2% 0.180W SIL	2		R346		
47	RN2		47Kx4 +-2% 0.180W SIL	-		R346		
48						-		

Items List		Cotag International						
Title		I/O Status Display Module PCA			IL02-418		Issue 2	
Drawn	JBT	Date	11-May-98	Checked		Date		
Mktg.		Date		Prod.		Date		
QA		Date		Eng.		Date		
Actioned		JBT	Date	01-Jul-98	Checked		Date	
Change Notes		DRAWN						
Used On		DL02-429						
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
50	CONN2		Socket Right Angle 16 way	-		Y344		
51	CONN3		Socket Right Angle 16 way	-		Y344		
52						-		
53						-		
54			Header Pins 2.54 Pitch	6		Y189		JU1 and JU2
55						-		
56			Microshunt Jumper	2		Y190		
57						-		
58	JU1		3 Pin Jumper	-		Y189		
59	JU2		3 Pin Jumper	-		Y189		
60				-		-		
61				-		-		
62			Product Label	1		D02-1265		

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Items List								Cotag International	
Title		Mk2 Swipe Reader Module				IL02-416		Issue 2	
Drawn	CW	Date	16-Jul-98	Checked	<i>[Signature]</i>	Date	24-Jul-98	Approvals:	
Mktg.		Date		Prod.		Date			
QA		Date		Eng.		Date			
Actioned	CW	Date	16-Jul-98	Checked	<i>[Signature]</i>	Date	24-Jul-98	Issue Date 3 Aug. 98	
Change Notes									
Used On		DL02-423							
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks	
1						-			
2						-			
3			Reader (Mark 2) Printed Circuit Board	1		A02-443			
4			Product label (Swipe version)	1		D02-1263			
5						-			
6	IC1	3-4C	74HC74 CMOS (Latch)	1		M152			
7	IC2	3-4C	74HC4520 (Arithmetic) SOIC	1		M187			
8	IC3	3-5B	74HC4094 (Arithmetic) SOIC	2		M185			
9	IC4	3-2B	74HC4094 (Arithmetic) SOIC	-		M185			
10	IC5	3-5A	74HC373 (Latch) SOIC	2		M184			
11	IC6	3-4A	74HC373 (Latch) SOIC	-		M184			
12	IC7	3-2A	ULN2803 Darlington Driver Array SM	1		N146			
13	IC8	3-3C	8 Bit Shift Register SOIC	1		M196			
14	IC9	3-3A	74HC273 (Latch) SOIC	1		M183			
15	IC10	3-4B	74HC155 (Steering) SOIC	1		M186			
16	IC11	3-6A	LM339 Quad Comparator SOIC	4		N142			
17	IC12	3-5C	LM339 Quad Comparator SOIC	-		N142			
18	IC13	3-5C	LM339 Quad Comparator SOIC	-		N142			
19	IC14	3-3D	LM339 Quad Comparator SOIC	-		N142			
20	IC15	3-4D	74HC00 (Gate) SOIC	3		M180			
21	IC16	3-2C	74HC00 (Gate) SOIC	-		M180			
22	IC17	3-2C	74HC00 (Gate) SOIC	-		M180			
23	IC18	3-4C	Triple 3-Input And Gate SOIC	1		M197			
24	IC19	3-3C	74HC04 (Gate) SOIC	2		M181			
25	IC20	3-4C	74HC14 Hex Schmitt Inverter SM	1		M189			
26	IC21	3-1B	74HC04 (Gate) SOIC	-		M181			
27						-			
28	L1		Not fitted			-			
29	L2		Not fitted			-			
30						-			
31	T1		Not fitted			-			
32	T2		Not fitted			-			
33	T3		Not fitted			-			
34	T4		Not fitted			-			
35						-			
36	D1	3-7C	BZX84C6V2 Zener Diode	2		J208			
37	D2	3-0B	5.6V Transient Suppressor SM 0805	9		J197			
38	D3	3-0B	5.6V Transient Suppressor SM 0805	-		J197			
39	D4	3-7D	5.6V Transient Suppressor SM 0805	-		J197			
40	D5	3-7B	14V Transient Suppressor SM 0805	14		J201			
41	D6	3-1C	BZX84C6V2 Zener Diode	-		J208			
42	D7	3-0B	5.6V Transient Suppressor SM 0805	-		J197			
43	D8	3-2D	5.6V Transient Suppressor SM 0805	-		J197			
44	D9	3-2D	5.6V Transient Suppressor SM 0805	-		J197			
45	D10	3-6B	14V Transient Suppressor SM 0805	-		J201			
46	D11	3-5A	14V Transient Suppressor SM 0805	-		J201			
47	D12	3-6B	14V Transient Suppressor SM 0805	-		J201			
48	D13	3-0C	BAS16 Small Signal Diode SM SOT23	2		J188			

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Items List						Cotag International	
Title Mk2 Swipe Reader Module				IL02-416		Issue 2	
Drawn	CW	Date	16-Jul-98	Checked	KST	Date	24-Jul-98
Mktg.		Date		Prod.		Approvals:	
QA		Date		Eng.			
Actioned	CW	Date	16-Jul-98	Checked	KST	Date	24-Jul-98
Change Notes 							
Used On DL02-423							

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
50	D15	3-5D	14V Transient Suppressor SM 0805	-		J201		
51	D16	3-5D	14V Transient Suppressor SM 0805	-		J201		
52	D17	3-1D	14V Transient Suppressor SM 0805	-		J201		
53	D18	3-1D	14V Transient Suppressor SM 0805	-		J201		
54	D19	3-1D	14V Transient Suppressor SM 0805	-		J201		
55	D20	3-1D	14V Transient Suppressor SM 0805	-		J201		
56	D21	3-6D	14V Transient Suppressor SM 0805	-		J201		
57	D22	3-6D	14V Transient Suppressor SM 0805	-		J201		
58	D23	3-6D	14V Transient Suppressor SM 0805	-		J201		
59	D24	3-6D	14V Transient Suppressor SM 0805	-		J201		
60	D25	1-7D	3mm 2.3V 20mA LED Yellow Diffused	2		L108		
61	D26	1-0D	3mm 2.3V 20mA LED Yellow Diffused	-		L108		
62	D27	3-0A	5.6V Transient Suppressor SM 0805	-		J197		
63	D28	3-7B	5.6V Transient Suppressor SM 0805	-		J197		
64	D29	3-6B	5.6V Transient Suppressor SM 0805	-		J197		
65	D30		Not fitted			-		
66	D31		Not fitted			-		
67	D32		Not fitted			-		
68	D33		Not fitted			-		
69						-		
70						-		
71						-		
72						-		
73						-		
74						-		
75						-		
76						-		
77						-		
78						-		
79						-		
80						-		
81						-		
82						-		
83	TR1	3-2A	BC846B NPN Transistor SM	2		J194		
84	TR2	3-3B	BC846B NPN Transistor SM	-		J194		
85	TR3		Not fitted			-		
86	TR4		Not fitted			-		
87	TR5		Not fitted			-		
88	TR6		Not fitted			-		
89	TR7		Not fitted			-		
90	TR8		Not fitted			-		
91	TR9		Not fitted			-		
92	TR10		Not fitted			-		
93						-		
94						-		
95						-		
96						-		
97						-		

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Items List

Cotag International

Title	Mk2 Swipe Reader Module				IL02-416	Issue	2
Drawn	CW	Date	16-Jul-98	Checked	<i>KH</i>	Date	24-Jul-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Approvals:							
Actioned	CW	Date	16-Jul-98	Checked	<i>KH</i>	Date	24-Jul-98
Issue Date							

Change Notes

Used On

DL02-423

Item	Ident	M.LI	Description	Qty	Units	Part No.	Var	Remarks
99						-		
100	C1		Not fitted			-		
101	C2	1-6C	10uF +50-10% 16V Al Radial Elect	2		C221		
102	C3	1-7C	100uF -10%+50% 16V Al Elect Radial	5		C159		
103	C4	3-4D	100nF +-10% 50v SM X7R 0805 NB	13		C306		
104	C5	3-4C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
105	C6	1-6C	47uF -10% +50% 16v Al Elect Radial	2		C127		
106	C7	3-4C	10nF +-5% 50v SM COG 1812	2		C304		
107	C8		Not fitted			-		
108	C9	1-1C	10uF +50-10% 16V Al Radial Elect	-		C221		
109	C10	1-1C	100uF -10%+50% 16V Al Elect Radial	-		C159		
110	C11	3-3D	100nF +-10% 50v SM X7R 0805 NB	-		C306		
111	C12	3-3C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
112	C13	1-1B	47uF -10% +50% 16v Al Elect Radial	-		C127		
113	C14	3-5C	10nF +-5% 50v SM COG 1812	-		C304		
114	C15	1-5C	1uF +-10% 63V Polyester Radial	4		C282		
115	C16	1-5C	1uF +-10% 63V Polyester Radial	-		C282		
116	C17	1-0D	1uF +-10% 63V Polyester Radial	-		C282		
117	C18	10C	1uF +-10% 63V Polyester Radial	-		C282		
118	C19	1-2A	100uF -10%+50% 16V Al Elect Radial	-		C159		
119	C20	1-0C	100uF -10%+50% 16V Al Elect Radial	-		C159		
120	C21	1-1A	100uF -10%+50% 16V Al Elect Radial	-		C159		
121	C22	3-2C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
122	C23	3-3B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
123	C24	3-3C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
124	C25	3-3C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
125	C26	3-5C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
126	C27	3-4C	100nF +-10% 50v SM X7R 0805 NB	-		C306		
127	C28	3-5A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
128	C29		Not fitted			-		
129	C30		Not fitted			-		
130	C31		Not fitted			-		
131	C32		Not fitted			-		
132	C33		Not fitted			-		
133	C34		Not fitted			-		
134	C35		Not fitted			-		
135	C36		Not fitted			-		
136	C37		Not fitted			-		
137	C38		Not fitted			-		
138	C39		Not fitted			-		
139	C40		Not fitted			-		
140	C41		Not fitted			-		
141	C42		Not fitted			-		
142	C43		Not fitted			-		
143	C44		Not fitted			-		
144	C45		Not fitted			-		
145	C46		Not fitted			-		
146	C47		Not fitted			-		

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Items List				Cotag International			
Title		Mk2 Swipe Reader Module		IL02-416		Issue 2	
Drawn	CW	Date	16-Jul-98	Checked	<i>KA</i>	Date	24-Jul-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned		CW		Date		16-Jul-98	
Change Notes				Checked		<i>KA</i>	
Used On		DL02-423		Date		24-Jul-98	
				Issue Date			

Item	Ident	M.L.	Description	Qty	Units	Part No.	Var	Remarks
148	C49		Not fitted			-		
149	C50		Not fitted			-		
150	C51		Not fitted			-		
151	C52		Not fitted			-		
152	C53		Not fitted			-		
153	C54	3-4A	100nF +-10% 50v SM X7R 0805 NB	-		C306		
154	C55	3-5B	100nF +-10% 50v SM X7R 0805 NB	-		C306		
155						-		
156						-		
157						-		
158						-		
159						-		
160	R1	3-7C	10K +-5% 0.1W 0805 SM NB	24		R306		
161	R2	3-5B	10K +-5% 0.1W 0805 SM NB	-		R306		
162	R3	3-6B	10K +-5% 0.1W 0805 SM NB	-		R306		
163	R4	3-4C	2K7 +-5% 0.1W 0805 SM NB	8		R308		
164	R5	3-4C	1K2 +-5% 0.1W 0805 SM NB	4		R321		
165	R6	3-4D	1K2 +-5% 0.1W 0805 SM NB	-		R321		
166	R7	3-4D	2K7 +-5% 0.1W 0805 SM NB	-		R308		
167	R8	3-4C	10K +-5% 0.1W 0805 SM NB	-		R306		
168	R9	3-4C	1K +-5% 0.1W 0805 SM NB	6		R309		
169	R10	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306		
170	R11	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306		
171	R12	3-0C	10K +-5% 0.1W 0805 SM NB	-		R306		
172	R13	3-3C	10K +-5% 0.1W 0805 SM NB	-		R306		
173	R14	3-2C	10K +-5% 0.1W 0805 SM NB	-		R306		
174	R15	3-3D	2K7 +-5% 0.1W 0805 SM NB	-		R308		
175	R16	3-3C	1K2 +-5% 0.1W 0805 SM NB	-		R321		
176	R17	3-3C	1K2 +-5% 0.1W 0805 SM NB	-		R321		
177	R18	3-4D	2K7 +-5% 0.1W 0805 SM NB	-		R308		
178	R19	3-3D	10K +-5% 0.1W 0805 SM NB	-		R306		
179	R20	3-3C	1K +-5% 0.1W 0805 SM NB	-		R309		
180	R21	3-4B	10K +-5% 0.1W 0805 SM NB	-		R306		
181	R22	3-4C	10K +-5% 0.1W 0805 SM NB	-		R306		
182	R23	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306		
183	R24	3-4B	10K +-5% 0.1W 0805 SM NB	-		R306		
184	R25	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306		
185	R26	3-4B	10K +-5% 0.1W 0805 SM NB	-		R306		
186	R27	3-5D	2K7 +-5% 0.1W 0805 SM NB	-		R308		
187	R28	3-5D	2K7 +-5% 0.1W 0805 SM NB	-		R308		
188	R29	1-5C	100R +-5% 0.25W Carbon Film	4		R113		
189	R30	1-5C	100R +-5% 0.25W Carbon Film	-		R113		
190	R31	3-2B	10K +-5% 0.1W 0805 SM NB	-		R306		
191	R32	3-4A	10K +-5% 0.1W 0805 SM NB	-		R306		
192	R33	3-5A	10K +-5% 0.1W 0805 SM NB	-		R306		
193	R34	3-4A	10K +-5% 0.1W 0805 SM NB	-		R306		
194	R35	1-0C	100R +-5% 0.25W Carbon Film	-		R113		
195	R36	1-0C	100R +-5% 0.25W Carbon Film	-		R113		

Items List										Cotag International	
Title		Mk2 Swipe Reader Module					IL02-416		Issue 2		
Drawn	CW	Date	16-Jul-98	Checked	<i>[Signature]</i>	Date	24-Jul-98	Approvals:			
Mktg.		Date		Prod.		Date					
QA		Date		Eng.		Date					
Actioned	CW	Date	16-Jul-98	Checked	<i>[Signature]</i>	Date	24-Jul-98	Issue Date			
Change Notes											
Used On DL02-423											
Item	Ident	M.L.	Description	Qty	Units	Part No.	Var	Remarks			
197	R38	3-6A	2K7 +5% 0.1W 0805 SM NB	-		R308					
198	R39	3-6A	1K0 +-1% 0.1W 0805 SM	1		R342					
199	R40	3-6A	3K3 +-1% 0.1W 0805 SM	1		R344					
200	R41	3-6A	270R +- 1% 0.1W 0805 SM Resistor	1		R341					
201	R42	3-6A	3K9 +-1% 0.1W 0805 SM	1		R345					
202	R43	3-6A	2K2 +/-1% 0.1W 0805 SM	1		R343					
203	R44	3-0D	1K +-5% 0.1W 0805 SM NB	-		R309					
204	R45	3-2A	1K +-5% 0.1W 0805 SM NB	-		R309					
205	R46	3-7D	1K +-5% 0.1W 0805 SM NB	-		R309					
206	R47	3-3B	1K +-5% 0.1W 0805 SM NB	-		R309					
207	R48					-		Deliberately Ommitted			
208	R49					-		Deliberately Ommitted			
209	R50					-		Deliberately Ommitted			
210	R51					-		Deliberately Ommitted			
211	R52					-		Deliberately Ommitted			
212	R53					-		Deliberately Ommitted			
213	R54					-		Deliberately Ommitted			
214	R55					-		Deliberately Ommitted			
215	R56	3-4C	10K +-5% 0.1W 0805 SM NB	-		R306					
216	R57	3-4C	10K +-5% 0.1W 0805 SM NB	-		R306					
217	R58	3-5C	10K +-5% 0.1W 0805 SM NB	-		R306					
218	R59	3-2C	100K +-5% 0.1W 0805 SM NB	8		R329					
219	R60	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329					
220	R61	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329					
221	R62	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329					
222	R63	3-3B	100K +-5% 0.1W 0805 SM NB	-		R329					
223	R64		Not fitted			-					
224	R65	3-2C	10K +-5% 0.1W 0805 SM NB	-		R306					
225	R66		Not fitted			-					
226	R67	1-7D	0 ohm link 0.25W	4		R266					
227	R68	1-7C	0 ohm link 0.25W	-		R266					
228	R69	3-5B	0 ohm 1206 SM NB	4		R252					
229	R70	3-6B	0 ohm 1206 SM NB	-		R252					
230	R71	1-2D	0 ohm link 0.25W	-		R266					
231	R72	1-5B	0 ohm link 0.25W	-		R266					
232	R73	3-3D	0 ohm 1206 SM NB	-		R252					
233	R74	3-2C	0 ohm 1206 SM NB	-		R252					
234	R75		Not fitted			-					
235	R76		Not fitted			-					
236	R77		Not fitted			-					
237	R78		Not fitted			-					
238	R79		Not fitted			-					
239	R80		Not fitted			-					
240	R81		Not fitted			-					
241	R82		Not fitted			-					
242	R83		Not fitted			-					
243	R84		Not fitted			-					
244	R85		Not fitted			-					

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Items List

Cotag International

Title	Mk2 Swipe Reader Module			IL02-416	Issue 2
Drawn	CW	Date	16-Jul-98	Checked	<i>KAV</i>
Mktg.		Date		Prod.	
QA		Date		Eng.	
Actioned	CW	Date	16-Jul-98	Checked	<i>KAV</i>
Change Notes					
Used On	DL02-423				

Approvals:

Issue Date

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
246	R87		Not fitted			-		
247	R88		Not fitted			-		
248	R89		Not fitted			-		
249	R90	3-2B	100K +-5% 0.1W 0805 SM NB	-		R329		
250	R91		Not fitted			-		
251	R92	3-5B	100K +-5% 0.1W 0805 SM NB	-		R329		
252	R93	3-5A	100K +-5% 0.1W 0805 SM NB	-		R329		
253						-		
254			Double Sided Adhesive Pad			F106		
255						-		
256						-		
257						-		
258	REG1	1-7C	L4941BV +5V+-0.25V Regulator	2		J157		
259	REG2	1-1C	L4941BV +5V+-0.25V Regulator	-		J157		
260						-		
261						-		
262	RLY1	1-6C	2A 12V 720R SPCO Relay	2		E122		
263	RLY2	1-1C	2A 12V 720R SPCO Relay	-		E122		
264						-		
265						-		
266						-		
267	CONN1	1-7D	5 Way Terminal Block PCB Header	4		Y338		
268	CONN2	1-6D	5 Way Terminal Block PCB Header	-		Y338		
269	CONN3	1-5D	6 Way Terminal Block PCB Header	2		Y339		
270	CONN4	1-2D	5 Way Terminal Block PCB Header	-		Y338		
271	CONN5	1-1D	5 Way Terminal Block PCB Header	-		Y338		
272	CONN6	1-0D	6 Way Terminal Block PCB Header	-		Y339		
273	CONN7	1-2A	Plug 64 Way DIN 41612	1		Y261		
274	CONN8	1-3B	20 Way (10 +10) Pin Header	1		Y342		
275			5 Way Plug Screw Free Polarized	4		Y340		
276			6 Way Plug Screw Free Polarized	2		Y341		
277			Jumper Pin 9 Way PCB Mt	18		Y189		Used for JU1 - JU6
278			Jumper 2 Way	6		Y190		Used for JU1 - JU6
279	JU1	1-5B	Jumper Pin 3 Way PCB Mt	-		Y189		
280	JU2	1-5B	Jumper Pin 3 Way PCB Mt	-		Y189		
281	JU3	1-7C	Jumper Pin 3 Way PCB Mt	-		Y189		
282	JU4	1-1B	Jumper Pin 3 Way PCB Mt	-		Y189		
283	JU5	1-1B	Jumper Pin 3 Way PCB Mt	-		Y189		
284	JU6	1-1C	Jumper Pin 3 Way PCB Mt	-		Y189		
285	JU7		Not fitted			-		
286						-		
287						-		
288		1-7C	Test Pin	1		Y299		0V test pin
289						-		
290						-		
291						-		
292						-		
293			Rivet Nylon	2		F261		

© BEWATOR COTAG LTD

Items List

Cotag International

Title	Mk2 Swipe Reader Module			IL02-416	Issue	2	
Drawn	CW	Date	16-Jul-98	Checked	<i>KAV</i>	Date	24-Jul-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned	CW	Date	16-Jul-98	Checked	<i>KAV</i>	Date	24-Jul-98
Change Notes							
Used On	DL02-423						

Approvals:

Issue Date

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
295								
296			Clamp Bracket (Swipe Version)	1		D02-1235		
297			Tape Polyester	0.2	m	F236		
298			Screw M2.5 x 6 Pan Pozi St/Zn	1		F227		
299			Washer M2 Nylon	1		F288		
300			Screw M3 x 6 Pan Pozi St/Nickel Plate	2		F102		
301			Washer M3 Shakeproof St/Zn	2		F166		
302			Nut M3 Full St/Zn	2		F137		
303			Screw M3 x 8.3 Slotted St/Steel	2		F257		
304			Washer M2.5 Plain Nylon	2		F258		

LI, 200, 2, MDATEB88 MDATEB88 CARDKEY - 8.2
MON, AUG 3, 1998, 2:09 PM

BILL OF MATERIAL

AS OF 08/03/98

REQUESTOR: READ .USER .CARDKEY
PAGE NO: 1

CLASS CODE GROUP: 1 STANDARD
CLASS CODE: 700 P900/S300 (AMTECH)

11-1524-01 OPCODE: 4 REV: H CONTROLLER ASSY, P900

MODEL:
ECO NO: 9703
DATE OF LAST ECO: 02/18/98

OP: ORDER POLICY CODE
REQ:N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	P	RV	ITEM NO.	QTY PER YIELD	ASSEMBLY FACTR	UM	SC	EP	R	DEFAULT OFF	DAYS	REFERENCE	EFFECTIVE	OBSOLETE
51-0144-01	ENCLOSURE, P900	1	D	1	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
51-0145-01	CHASSIS, PCBA, P900	1	A	2	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
31-2272-01	PCBA, POWER SPLY, 12/5V, SWITCHER	1	E	3	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
31-2233-01	LAMP ASSY, (SMALL ENCL), S300	1	E	5	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
31-2281-01	CABLE ASSY, TAMPER SWITCH, P900	1	F	6	1.000	1.000	EA	M	YN		1.000	0	0	00/00/00	99/99/99
31-0976-01	GROUND STRAP ASSY, 5"	1	D	7	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
31-2283-01	CABLE ASSY, CPU TO POWER SUPPLY	1	C	8	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
31-2282-01	CABLE ASSY, BATTERY, P900	1	F	9	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
70-1562-01	PCBA, COTAG, 4103 MOTHERBOARD	1	E	10	1.000	1.000	EA	B	YN		1.000	0	0	00/00/00	99/99/99
86-5102-02	SCREW, 6-32 X 3/8, SEMS, PHH, PNH	2	A	11	5.000	1.000	EA	F	YN		5.000	0	0	00/00/00	99/99/99
86-5102-03	SCREW, 6-32 X 1/2, SEMS, PHH, PNH	2	A	12	4.000	1.000	EA	F	YN		4.000	0	0	00/00/00	99/99/99
86-9024	NUT, HEX, 8-32, FLANGE LOCK	2	A	13	4.000	1.000	EA	F	YN		4.000	0	0	00/00/00	99/99/99
87-9012	SUPPORT, PCB, 3/16", .060 PCB, LK	1	B	14	7.000	1.000	EA	F	YN		7.000	0	0	01/25/96	99/99/99
87-9032-01	SUPPORT, PCB, 3/16"	1	B	15	3.000	1.000	EA	F	YN		3.000	0	0	00/00/00	99/99/99
87-9033-01	CABLE HOLDER, NYLON, WHT	1	A	16	6.000	1.000	EA	F	YN		6.000	0	0	00/00/00	99/99/99
68-0015-01	LABEL, ID, GENERAL	1	L	19	1.000	1.000	EA	F	YN		1.000	0	0	11/20/95	99/99/99
86-3002-04	SCREW, 6-32 X .25, SELF-TPG, PHH, 2	21		21	1.000	1.000	EA	F	YN		1.000	0	0	04/25/96	99/99/99
87-0011	PAD, MTG, CBL, TIE, .75 X .75	1		23	7.000	1.000	EA	F	YN		7.000	0	0	04/25/96	99/99/99
90-1001	TIE WRAP, 3.75" LG, 5/8" DIA MAX	2		24	7.000	1.000	EA	F	YN		7.000	0	0	04/25/96	99/99/99
83-0177-01	JUMPER, 0.1 INCH, GOLD	1	B	25	1.000	1.000	EA	F	YN		1.000	0	0	12/11/95	99/99/99
31-2285-01	HARDWARE KIT, SCREWS	1	A	26	1.000	1.000	EA	M	YN		1.000	0	0	12/11/95	99/99/99
31-2286-01	KIT, FERRITES, P900	1	A	27	1.000	1.000	EA	M	YN		1.000	0	0	01/25/96	99/99/99
68-0445-01	LABEL, MANTAL, ISSUE DATE	1	A	28	1.000	1.000	EA	F	YN		1.000	0	0	04/09/96	99/99/99
68-0417-01	LABEL, UL, C/UL LISTED, 2882	1	B	29	1.000	1.000	EA	F	YN		1.000	0	0	04/09/96	99/99/99
70-1614-01	TAPE, FILAMENT	1	A	31	.000	1.000	EA	F	YN		.000	0	0	04/25/96	99/99/99
70-0108	KEYLOCK, CAM TYPE, LESS CAM	1	F	32	1.000	1.000	EA	B	YN		1.000	0	0	07/12/96	99/99/99
52-0017-01	CAM, LOCK	1	B	33	1.000	1.000	EA	B	YN		1.000	0	0	07/12/96	99/99/99
70-1644-01	ENVELOPE, KEY	1	B	34	1.000	1.000	EA	F	YN		1.000	0	0	09/10/96	99/99/99

LI,200,2.MDATAB88 MDATAB88 CARDKEY - 8.2
MON, AUG 3, 1998, 2:09 PM

BILL OF MATERIAL
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REQUESTOR: READ .USER .CARDKEY
PAGE NO: 1

CLASS CODE GROUP: 1 STANDARD
CLASS CODE: 250 PCB'S/PCBA'S

31-2272-01 OPCODE: 1 REV: E PCBA, POWER SPV, 12/5V, SWITCHER

MODEL:
ECO NO: 9335
DATE OF LAST ECO: 11/07/96

OP: ORDER POLICY CODE
REQ:N-PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	O	ITEM	QTY	PER	YIELD	UM	SC	QF	DEFAULT	OFF	SEQ	REFERENCE	EFFECTIVE	DATE	DATE
36-2272-01	PCB, FAB, POWER SUPPLY, 12/5V	1	1	1.000	1.000	EA	B	YN	1.000	0	0	0	0	00/00/00	99/99/99	
75-0103-01	IC, SWITCHING REG, ADJ, 3A	1	2	1.000	1.000	EA	B	YN	1.000	0	0	0	0	00/00/00	99/99/99	
75-0074-01	IC, VOLTAGE, REG, LM2576T-5.0 (MAX)	1	3	1.000	1.000	EA	B	YN	1.000	0	0	0	0	00/00/00	99/99/99	
75-0102-01	IC, REGULATOR, LINEAR, 5V, 100mA	1	4	1.000	1.000	EA	B	YN	1.000	0	0	0	0	00/00/00	99/99/99	
75-8519	IC, 74HC02, QUAD NOR GATE	1	5	1.000	1.000	EA	B	YN	1.000	0	0	0	0	00/00/00	99/99/99	
75-0101-01	IC, DRIVER, ULN2003, DIP, 50V, .5A	1	6	1.000	1.000	EA	B	YN	1.000	0	0	0	0	00/00/00	99/99/99	
75-7021	IC, 393	1	7	1.000	1.000	EA	B	YN	1.000	0	0	0	0	00/00/00	99/99/99	
72-0044-01	CAPACITOR, 1000UF, 50V, RAD ALUM	1	8	3.000	1.000	EA	B	YN	3.000	0	0	0	0	00/00/00	99/99/99	
72-0045-01	CAPACITOR, 470-820UF, .25-50V, HFQ	1	10	2.000	1.000	EA	B	YN	2.000	0	0	0	0	00/00/00	99/99/99	
72-2010	CAPACITOR, CER, 50V, 20%, 1 UF	1	11	2.000	1.000	EA	B	YN	2.000	0	0	0	0	00/00/00	99/99/99	
76-5006	DIODE, RECT, MED CURRENT, 1N5401	1	12	7.000	1.000	EA	B	YN	7.000	0	0	0	0	00/00/00	99/99/99	
76-0044-01	DIODE, SCHOTTKY, 45V, 8A	1	13	2.000	1.000	EA	B	YN	2.000	0	0	0	0	08/10/95	99/99/99	
76-0007-01	DIODE, TRANSZORB, BI-DIR, 40V	1	14	2.000	1.000	EA	B	YN	2.000	0	0	0	0	08/10/95	99/99/99	
76-5013	RECTIFIER, BRDG, SILICON, 200V, 4A	1	15	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
76-2011	TRANSIENT SUPPR,	1	16	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
76-2037	TRANSIENT SUPPR, 14V	1	17	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
73-0091-01	RESISTOR, 1/4W, 1%, 4.7K, MF	2	18	5.000	1.000	EA	F	YN	5.000	0	0	0	0	02/29/96	99/99/99	
73-0087-01	RESISTOR, MF, 1/4W, 1%, 49.9K	2	19	1.000	1.000	EA	F	YN	1.000	0	0	0	0	08/10/95	99/99/99	
73-6049	RESISTOR, MF, 1/4W, 1%, 48.7K OHM	2	20	1.000	1.000	EA	F	YN	1.000	0	0	0	0	08/10/95	99/99/99	
73-0090-01	RESISTOR, 1/4W, 1%, 10K, MF	2	21	5.000	1.000	EA	F	YN	5.000	0	0	0	0	02/29/96	99/99/99	
73-0086-01	RESISTOR, CEMENT, 5W, 10%, 2.4 OHM	2	22	1.000	1.000	EA	F	YN	1.000	0	0	0	0	08/10/95	99/99/99	
73-0083-01	RESISTOR, CF, 1W, 5%, 200 OHM	2	23	1.000	1.000	EA	F	YN	1.000	0	0	0	0	08/10/95	99/99/99	
73-0085-01	RESISTOR, CF, 1/4W, 5%, 1.2K	2	24	6.000	1.000	EA	F	YN	6.000	0	0	0	0	08/10/95	99/99/99	
73-1111	RESISTOR, COMP, 1/4W, 5%, 100K OHM	2	25	2.000	1.000	EA	F	YN	2.000	0	0	0	0	08/10/95	99/99/99	
73-0092-01	RESISTOR, 1/4W, 1%, 28K, MF	2	26	1.000	1.000	EA	F	YN	1.000	0	0	0	0	02/29/96	99/99/99	
76-2027	LED, LOW CURRENT, 2MA, RED	1	27	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
76-2029	LED, LOW CURRENT, 2MA, GRN	1	28	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
76-2028	LED, LOW CURRENT, 2MA, YEL	1	29	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
79-0019-01	INDUCTOR, 150UH, 3A	1	30	2.000	1.000	EA	B	YN	2.000	0	0	0	0	08/10/95	99/99/99	
74-0010-01	TRANSISTOR, BNP, 100V, TIP42C	1	31	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
78-1026	FUSE, 5A, 3AG, 250V, SLO-BLO	1	32	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
78-1023	FUSE, 1A, 3AG, 250V, SLO-BLO	1	33	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
78-2007	FUSE CLIP, 3AG, W/FUSE STOP	1	34	4.000	1.000	EA	B	YN	4.000	0	0	0	0	08/10/95	99/99/99	
84-3001	HEATSINK, PLSTC PWR DEVICES	1	35	2.000	1.000	EA	B	YN	2.000	0	0	0	0	08/10/95	99/99/99	
83-0168-01	CONN, SKT, VERT, 3 CKT, 2SP	1	36	1.000	1.000	EA	B	YN	1.000	0	0	0	0	08/10/95	99/99/99	
83-0077-01	CONNECTOR, HDR, 2CKT, MTA, 156SP	1	37	2.000	1.000	EA	B	YN	2.000	0	0	0	0	08/10/95	99/99/99	
83-0178-01	HEADER, 3 PIN, .025" PINS, .1" SP	1	38	1.000	1.000	EA	B	YN	1.000	0	0	0	0	09/15/95	99/99/99	

LI,200,2,MDATAB88 MDATAB88 CARDKEY - 8.2
MON, AUG 3, 1998, 2:09 PM

BILL OF MATERIAL
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PAGE NO: 2

CLASS CODE GROUP: 1 STANDARD
CLASS CODE: 250 PCB'S/PCBA'S

31-2272-01

OPCODE: 1 REV: E PCB, POWER SUPPLY, 12/5V, SWITCHER

MODEL:

ECO NO: 9335

DATE OF LAST ECO: 11/07/96

OP: ORDER POLICY CODE
REQ:N=PART OPTIONAL
Y=PART REQUIRED
PF: N=PART DOES NOT PRINT ON SALES ORDER
Y=PART PRINTS ON SALES ORDER W/O PRICE
P=PART PRINTS ON SALES ORDER WITH PRICE

PART NUMBER	DESCRIPTION	O P RV	ITEM NO.	QTY PER ASSEMBLY	YIELD FACTR	UM	SC	OF	R EP	DAYS DEFAULT OFF	REFERENCE SEQ DESIGNATOR	EFFECTIVE DATE	OBSOLETE DATE
83-2051	CONNECTOR, HDR, 10 CKT, 156 SP, P 1 B	1 B	39	1.000	1.000	EA	B	YN	1.000	0	0 J4	08/10/95	99/99/99
83-0172-01	CONN, PLUG, PRL, 3 CKT, 2SP	1 A	41	1.000	1.000	EA	B	YN	1.000	0	0 P1	08/18/95	99/99/99
73-1073	RESISTOR, COMP, 1/4W, 5%, 2.7K OHM 2	1 B	42	2.000	1.000	EA	F	YN	2.000	0	0 R19, 20	08/31/95	99/99/99
79-2001	CHOKE, WIDE BAND	1 B	44	1.000	1.000	EA	B	YN	1.000	0	0 L3	09/15/95	99/99/99
72-2011	CAPACITOR, CER, 50V, 20%, 33 UF	1 B	45	3.000	1.000	EA	B	YN	3.000	0	0 C9, C11, C12	09/15/95	99/99/99
72-4014	CAPACITOR, ELCTLC, 50V, 47 UF	1 B	46	1.000	1.000	EA	B	YN	1.000	0	0 C10	09/15/95	99/99/99
83-0176-02	HEADER, 2X1, 0.1 SP, .025 SQ POST 1 A	1 A	47	2.000	1.000	EA	B	YN	2.000	0	0 JP3, JP4	09/15/95	99/99/99
86-5102-02	SCREW, 6-32 X 3/8, SEWS, PHH, FNH 2 A	2 A	48	3.000	1.000	EA	F	YN	3.000	0	0 XU1, XU2, XQ1	04/25/96	99/99/99
86-4004	NUT, HEX, 6-32, STU, CP, SM PATTERN 2	2	49	3.000	1.000	EA	F	YN	3.000	0		11/07/96	99/99/99

INSTRUCTIONS, HOW TO USE FERRITES

Installation of Ferrite Suppression Cores

The purpose of this document is to supply adequate instructions for attaching ferrite suppression cores to the input power cable and communication cables.

After the cabinet is installed and the cables have been run and terminated, perform the following steps:

- Place one suppression core around the input power cable positioning the core as close to the cable entry point as possible.
- If the incoming and outgoing communication cables come through the same entry point, place one suppression core around both cables, positioning the core as close to the cable entry point as possible.
- If the incoming and outgoing communication cables come through separate entry points, place one suppression core around each cable, positioning the core as close to the cable entry point as possible.

The ferrite suppression cores supplies are housed in a plastic snap-shut case. Ferrite cores need not be restricted to one per incoming cable. It is acceptable to fit more than one set of wires within the ferrite core; just keep the placement of the core as close to the entry point as possible. Care should be taken not to trap any wires between the two halves and to ensure that the two halves are fully clamped together.

								Drawn By	M. Quinn	3/1/96
								Checker	M. Quinn	3/1/96
								Prod. Eng.		
				B	3/1/96	8364	MP	Approved	K. Quinn	3/1/96
				A	1/26/96	8341	-	Approved		
Rev	Date	EO Number	Appd	Rev	Date	EO Number	Appd		Name	Date
 Title INSTRUCTIONS, HOW TO USE FERRITES Spec No. 47-0389 Rev. B Page 1 of 1										

Items List

Title	4103-2 Motherboard Printed Circuit Assembly				IL02-413	Issue 1	
Drawn	RCB	Date	06-Mar-98	Checked	<i>[Signature]</i>	Date	9-JUN-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned	RCB	Date	06-Mar-98	Checked	<i>[Signature]</i>	Date	9-JUN-98
Issue Date	9-JUN-98						
Change Notes	DRAWN						
Used On	DL02-421						

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var.	Remarks
1						-		
2			Printed Circuit Board Artworks	1		A02-442		
3			Part No reference	-		-		Part No. P02-421
4						-		
5	IC1		74HC164	2		M130		
6	IC2		74HC164	-		M130		
7	IC3		74HC04	1		M129		
8	IC4		74HC74	1		M168		
9	IC5		74HC138	1		M131		
10	IC6		74HC238	2		M141		
11	IC7		74HC148	1		M158		
12	IC8		74HC373	2		M133		
13	IC9		74HC00	1		M128		
14	IC10		MC68HC11AA1FN PLCC	1		M192		
15	IC11		74HC238	-		M141		
16	IC12		74HC03	1		M156		
17	IC13		74HC32	1		M157		
18	IC14		74HC4040	1		M161		
19	IC15		4Mbit SRAM HM62512	1		M194		
20	IC16		1Mb 5v Flash Memory AM29F010	1		M195		software spec SS02-64
21	IC17		27C256	1		M165		software spec SS02-63
22	IC18		IC 6350	1		M125		
23	IC19		68HC68T1E	1		M166		
24	IC20		74HC273	2		M127		
25	IC21		74HC273	-		M127		
26	IC22		74HC373	-		M133		
27	IC23		LT1181	1		N122		
28	IC24		74HC589	1		M159		
29	IC25		IC 75176	2		N126		
30	IC26		TIL198	2		N127		
31	IC27		IC 75176	-		N126		
32	IC28		TIL198	-		N127		
33	IC29		MAX705	1		M162		
34	IC30		74HC08 CMOS (Gate)	1		M132		
35						-		
36						-		
37						-		
38	X1		Crystal 7.392 MHz	1		X106		
39	X2		Crystal 32.768 KHz	1		X107		
40						-		
41						-		
42						-		
43	D1		Diode BAT 85	3		J152		
44	D2		Diode BAT 85	-		J152		
45						-		
46	D4		Diode BAT 85	-		J152		
47	D5		IN4001	1		J110		
48	D6		J511 (constant current)	3		J154		
49	D7		J511 (constant current)	-		J154		

Items List						amtech ANALOGUE SECURITY PRINTS	
Title		4103-2 Motherboard Printed Circuit Assembly			IL02-413		Issue 1
Drawn	RCB	Date	06-Mar-98	Checked	<i>[Signature]</i>	Date	9-JUN-98
Mktg.		Date		Prod.		Date	
QA		Date		Eng.		Date	
Actioned		RCB		Date	06-Mar-98	Checked	<i>[Signature]</i>
		Date	9-JUN-98	Issue Date	9-JUN-98		
Change Notes		DRAWN					
Used On		DL02-421					

Item	Ident	MLI	Description	Qty	Units	Part No.	Var.	Remarks
51	D9		SA12	1		J160		
52	D10		Light Emitting Diode (yellow)	4		L108		
53	D11		Light Emitting Diode (yellow)	-		L108		
54	D12		Light Emitting Diode (yellow)	-		L108		
55	D13		Light Emitting Diode (yellow)	-		L108		
56	D14		Diode SA12C	8		J167		
57	D15		Diode SA12C	-		J167		
58	D16		Diode SA12C	-		J167		
59	D17		Diode SA12C	-		J167		
60	D23		Diode SA12C	-		J167		
61	D24		Diode SA12C	-		J167		
62	D25		Diode SA12C	-		J167		
63	D26		Diode SA12C	-		J167		
64	D18		Light Emitting Diode (green)	4		L138		
65	D19		Light Emitting Diode (green)	-		L138		
66	D20		Light Emitting Diode (green)	-		L138		
67	D21		Light Emitting Diode (green)	-		L138		
68	D22		J511 (constant current)	-		J154		
69						-		
70						-		
71	C1		100nF 10% 100V polyester	22		C279		
72	C2		100nF 10% 100V polyester	-		C279		
73	C3		100nF 10% 100V polyester	-		C279		
74	C4		100nF 10% 100V polyester	-		C279		
75	C5		100nF 10% 100V polyester	-		C279		
76	C6		100nF 10% 100V polyester	-		C279		
77	C7		100nF 10% 100V polyester	-		C279		
78	C8		22pF 2% 100V ceramic	4		C219		
79	C9		22pF 2% 100V ceramic	-		C219		
80	C10		100nF 10% 100V polyester radial	-		C279		
81	C11		1uF 20% 50V AL electrical Radial	2		C144		
82	C12		1uF 20% 50V AL electrical Radial	-		C144		
83	C13		100nF 10% 100V polyester	-		C279		
84	C14		100nF 10% 100V polyester	-		C279		
85	C15		100nF 10% 100V polyester	-		C279		
86	C16		100nF 10% 100V polyester	-		C279		
87	C17		100nF 10% 100V polyester	-		C279		
88	C18		100nF 10% 100V polyester	-		C279		
89	C19		100nF 10% 100V polyester	-		C279		
90	C20		100nF 10% 100V polyester	-		C279		
91	C21		100nF 10% 100V polyester	-		C279		
92	C22		100nF 10% 100V polyester	-		C279		
93	C23		1000uF 20% 16V Radial elect	4		C160		
94	C24		1000uF 20% 16V Radial elect	-		C160		
95	C25		1000uF 20% 16V Radial elect	-		C160		
96	C26		1000uF 20% 16V Radial elect	-		C160		
97	C27		100nF 10% 100V polyester	-		C279		
98	C28		22pF 2% 100V ceramic	-		C219		

Issue 1

Approvals:

Date

Issue Date 9-Jun-48

DRAWN

DL02-421

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var.	Remarks
101	C31		1uF 20% 16V tantalum	-		C128		
102	C32		1uF 20% 16V tantalum	-		C128		
103	C33		1uF 20% 16V tantalum	-		C128		
104	C34		100nF 10% 100V polyester	-		C279		
105	C35		100nF 10% 100V polyester	-		C279		
106	C36		100nF 10% 100V polyester	-		C279		
107						-		
108						-		
109	B2		Filter	3		B134		
110	B3		Filter	-		B134		
111	B4		Filter	-		B134		
112						-		
113						-		
114	R1		1M 5% 0.25w CF	2		R161		
115	R2		10M 5% 0.25W CF	1		R173		
116	R3		1K 5% 0.25W CF	5		R125		
117	R4		10K 5% 0.25W CF	9		R137		
118	R5		10K 5% 0.25W CF	-		R137		
119	R6		1K 5% 0.25W CF	-		R125		
120	R7		1K 5% 0.25W CF	-		R125		
121	R8		22M 5% 0.25W Metal glaze	1		R286		
122	R9		1K 5% 0.25W CF	-		R125		
123	R10		10K 5% 0.25W CF	-		R137		
124	R11		1M 5% 0.25W CF	-		R161		
125	R12		10K 5% 0.25W CF	-		R137		
126	R13		47K 5% 0.25W CF	1		R145		
127	R14		10K 5% 0.25W CF	-		R137		
128	R15		10K 5% 0.25W CF	-		R137		
129	R16		1K 5% 0.25W CF	-		R125		
130	R17		100R 5% 0.25W CF	1		R113		
131	R18		10R 5% 0.25W CF	1		R101		
132	R19		10K 5% 0.25W CF	-		R137		
133	R20		10K 5% 0.25W CF	-		R137		
134	R21		10K 5% 0.25W CF	-		R137		
135						-		
136						-		
137	RN1		10K x 8 common resistors	4		R184		
138	RN2		10K x 8 common resistors	-		R184		
139	RN3		4K7 x 8 common resistors	1		R284		
140	RN4		470R x 4 individual resistors	1		R276		
141	RN5		10K x 8 common resistors	-		R184		
142	RN6		10K x 8 common resistors	-		R184		
143						-		
144						-		
145						-		
146	SW1		BCD rotary finger adjust	2		S135		
147	SW2		BCD rotary finger adjust	-		S135		
148	SW3		Switch DIL SP 4 pos	1		S138		

Items List

Title	4103-2 Motherboard Printed Circuit Assembly				IL02-413	Issue	1	
Drawn	RCB	Date	06-Mar-98	Checked	<i>[Signature]</i>	Date	9-Jun-98	
Mktg.		Date		Prod.		Date		
QA		Date		Eng.		Date		
Actioned						RCB	Date	06-Mar-98
Checked						<i>[Signature]</i>	Date	9-Jun-98
Issue Date						9-Jun-98		

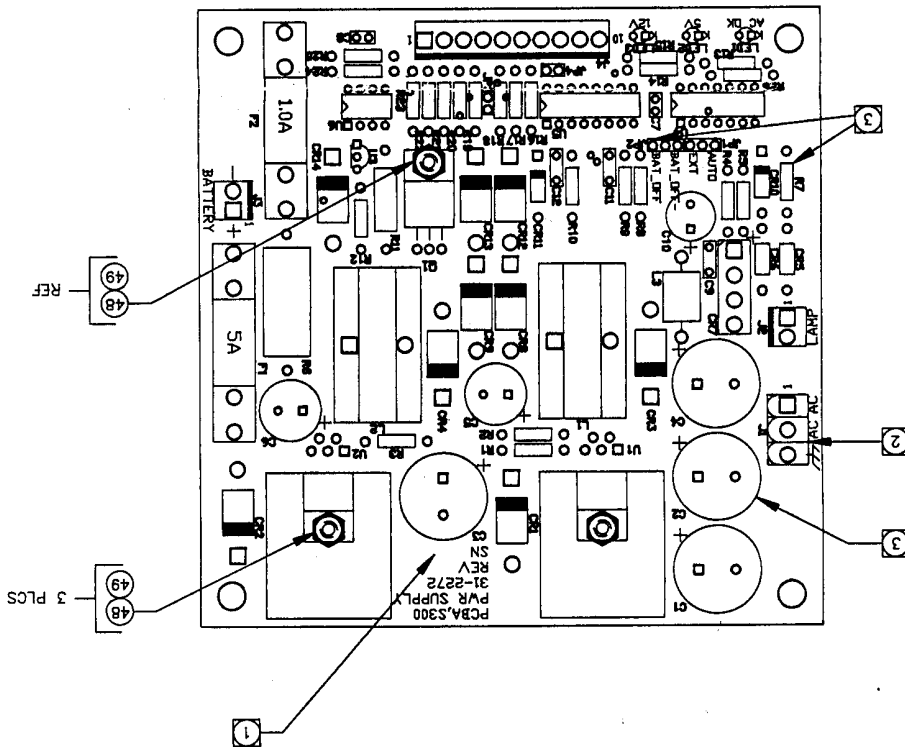
Change Notes	DRAWN
Used On	DL02-421

Item	Ident	M.I.	Description	Qty	Units	Part No.	Var.	Remarks
151						-		
152						-		
153	REG1		Regulator LM2940 CT 5.0 5V	1		J157		
154	REG2		Regulator L4940 V10 10V	1		J166		
155						-		
156						-		
157						-		
158	FS1		Fuse 1.25A Anti Surge	1		B138		
159	FS2		Fuse 4A Anti Surge	1		B133		
160						-		
161						-		
162	L1		Inductor 22uH Axial	1		Q117		
163						-		
164	B1		Lithium cell 3.0V	1		B127		
165			Solder Resist	A/R		V177		
166						-		
167	LK3		Straight Pin Header	2		Y189		
168	LEARN		Straight Pin Header	3		Y189		
169	JU1		12 way Pin Header	1		Y337		
170						-		
171						-		
172			Test Point Pin (black)	5		Y299		
173	JU2		Blob link	-		-		
174			Microshunt Jumper	3		Y226		
175						-		
176						-		
177	CONN1		PCB Header 6 way Top Entry	2		Y268		
178	CONN2		PCB Header 6 way Top Entry	-		Y268		
179	CONN3		PCB Header 8 way Top Entry	1		Y270		
180	CONN4		PCB Header 5 way Top Entry	1		Y266		
181	CONN5		PCB Header 2 way Top Entry	1		Y262		
182						-		
183						-		
184	CONN6		Socket 32 way DIN41612	1		Y258		
185	CONN7		Socket 64 way DIN41612	5		Y260		
186	CONN8		Socket 64 way DIN41612	-		Y260		
187	CONN9		Socket 64 way DIN41612	-		Y260		
188	CONN10		Socket 64 way DIN41612	-		Y260		
189	CONN11		Socket 64 way DIN41612	-		Y260		
190						-		
191	CONN12		Socket pin header 40 way	1		Y278		
192			Polarizing plug	1		Y254		
193						-		
194						-		
195			6 way free terminal plug	2		Y229		
196						-		
197			5 way free terminal plug	1		Y274		
198			2 way free terminal plug	1		Y271		
199						-		

Items List								amtech ELECTRONIC SUPPLY GROUP		
Title		4103-2 Motherboard Printed Circuit Assembly				IL02-413		Issue 1		
Drawn	RCB	Date	06-Mar-98	Checked	<i>[Signature]</i>	Date	9-Jun-98	Approvals:		
Mktg.		Date		Prod.		Date				
QA		Date		Eng.		Date				
Actioned		RCB	Date	06-Mar-98	Checked	<i>[Signature]</i>	Date	9-Jun-98	Issue Date	9-Jun-98
Change Notes		DRAWN								
Used On		DL02-421								
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var.	Remarks		
201			Socket PLCC 52 pin	1		Y279				
202			Socket DIL 28pin	1		Y204				
203			Socket DIL 32pin	1		Y277				
204						-				
205			Fuseholder	2		G115				
206	HS1		Heatsink 6.8C/W	2		G130				
207	HS2		Heatsink 6.8C/W	-		-				
208						-				
209			Thermal Pad	2		G139				
210			Insulating Bush	2		G138				
211						-				
212			Screw M3 x 6 Pozi pan Steel/Ni Plate	12		F102				
213			Screw M3 x 8 Pozi Pan Head Stl/Zn	2		F153				
214						-				
215						-				
216			Washer M3 plain	2		F167				
217			Washer M3 shakeproof	2		F166				
218						-				
219			Nut M3 plain	2		F137				
220						-				
221			Twin stick pad	0.5		F106		Cut pad in half		
222			Cyanoacrylate Adhesive	0.5	cc	F158				

1. MARK APPROPRIATE PCBA DASH NO., REV LETTER AND SERIAL NO. WHERE SHOWN.
2. INSTALL CONNECTOR P1 (ITEM 41, PART NO. 83-0172-01) ONTO CONNECTOR J1 (ITEM 36, PART NO. 83-0168-01)
3. COMPONENTS ARE NOT INSTALLED AT FOLLOWING LOCATIONS (FOR FUTURE DESIGN ONLY):
C2 CAPACITOR
R7 RESISTOR
J2 HEADER, 3 PIN
4. BAR CODE LABEL CAN BE USED IN PLACE OF MARKING COMPONENT SIDE OF BOARD PER NOTE 1.
5. PLACE BAR CODE LABEL (SEE REF DOCUMENT 98-0176-01), ON SOLDER SIDE IN A SUITABLE LOCATION.

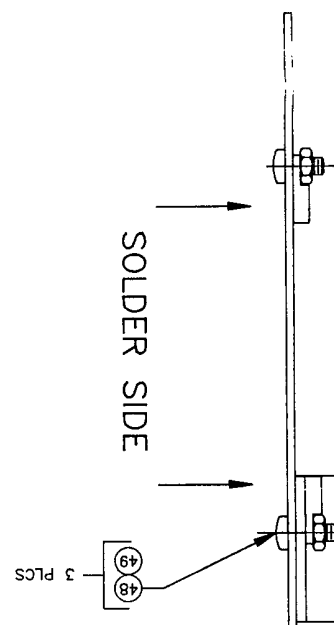
COMPONENT SIDE (NEAR SIDE)



UNLESS OTHERWISE SPECIFIED INTERPRET DWG. PER ANSI Y14.5 THIRD ANGLE PROJECTION DIMENSIONS APPLY AFTER FINISH DIMENSIONS IN INCHES [METRIC EQUIVALENT IN MM] TOLERANCES: .XXX ±.010 [.25] .XX ±.03 [.76] ANGLES ±0° 30' REMOVE BURRS AND BREAK EDGES .010 [.25] MAX.		SCALE 1:1 DO NOT SCALE DRAWING SH 1 OF 1
DRAWN CAG TECHNOLOGIES 8-1-95 DATE	CHECK R. CAMILLERI 12/14/95	APPR D. STURGIS 12/14/95
APPR R. PELUSO 12/15/95	FINISH	
MATERIAL		

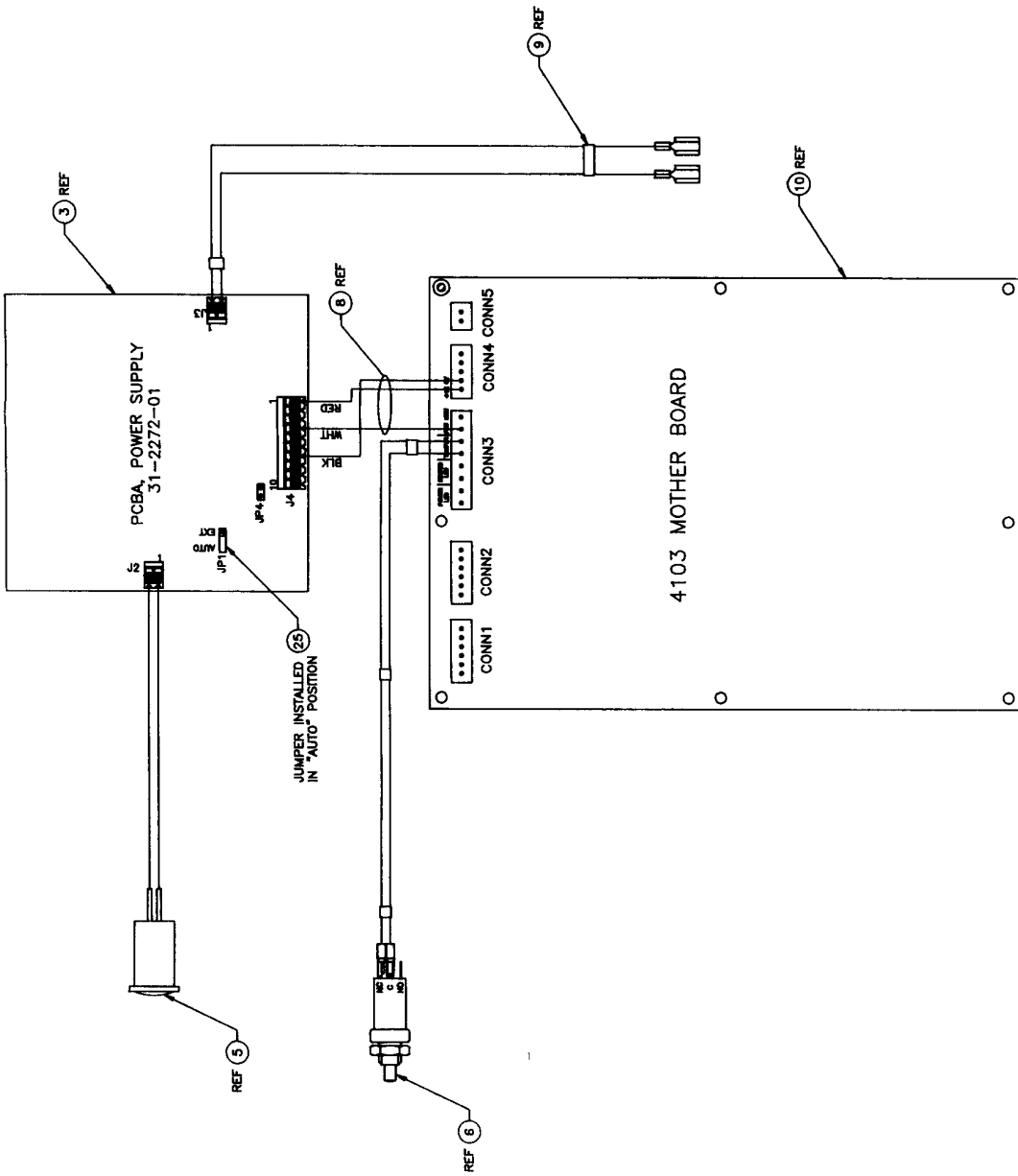
PCBA S300 POWER SUPPLY		TITLE
Copyright © Cardkey Systems, Inc. 1996. All Rights Reserved		SIZE DWG NO.
REV E	31-2272	SCALE 1:1 DO NOT SCALE DRAWING SH 1 OF 1

SEE SEPARATE PARTS LIST

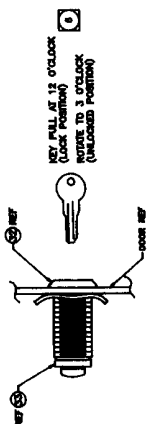


LTR	EO NO.	DESCRIPTION	CHECK	APPR	DATE
A	8906	PRODUCTION RELEASE	RRC	RRC	10/1/95
B	8961	REVISED PER EO	RRC	RRC	2/29/96
C	9115	REVISED PER EO	RRP	RRP	4/25/96
D	9174	REVISED PER EO	C.G.	C.G.	6/26/96
E	9335	REVISED PER EO			11/7/96

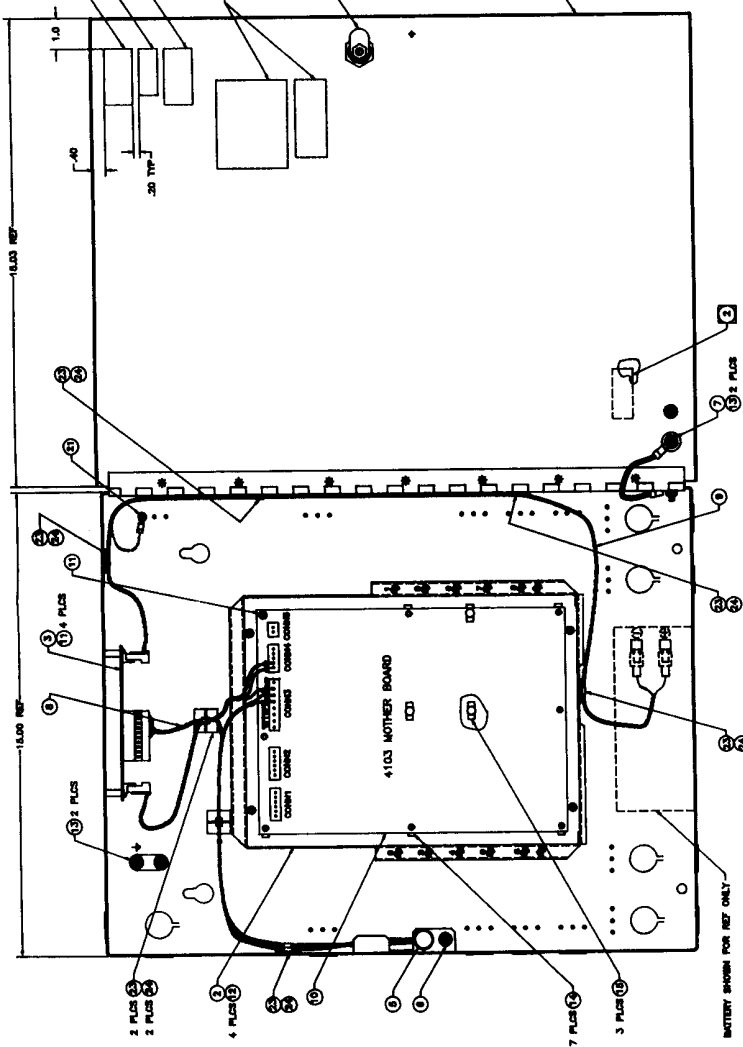
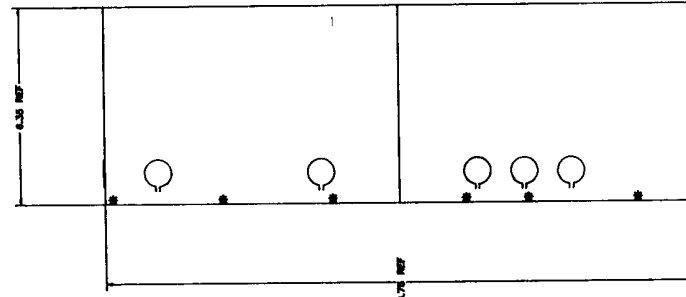
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WIRING DIAGRAM



DETAIL "A"



- 1 AFTER ASSEMBLY, CLOSE DOOR AND LOCK. REMOVE KEYS FROM LOCK. AFTER KEYS ARE REMOVED, FOLD TOP FLAP OF ENVELOPE, FOLD ONCE AT TOP FLAP, AND INSERT INTO OUTER EDGE OF DOOR. DO NOT NEAR LOCATION OF LOCK.
- 2 MARK LABEL (ITEM 28) WITH MANUAL AND ISSUE DATE.
- 3 ADHERE ITEM 27 TO INSIDE OF ENCLOSURE AT LOCATION SHOWN, USING ITEM 31. (2M AND FLAMMANT TAPE OR EQUIVALENT)
- 4 ADHERE ITEM 28 TO INSIDE OF ENCLOSURE AT LOCATION SHOWN, USING ITEM 31. (2M AND FLAMMANT TAPE OR EQUIVALENT)
- 5 WHEN REQUIRED BY SPECIFICATION, REMOVE DOOR OVER EXISTING SUBSTRATE OF CARDKEY LOCK. REFER TO SALES ORDER/PRICE LIST FOR APPROPRIATE DOOR LABELS TO BE USED.
- 6 MARK LABEL (ITEM 19) WITH MODEL NO., PART NO., VOLTAGE, AMP, FUSE, SERIAL NO. AND DATE CODE PER TABULATION BLOCK AND ADHERE TO INSIDE OF DOOR SURFACE AT LOCATION SHOWN.

NOTES: UNLESS OTHERWISE SPECIFIED

SEE SEPARATE PARTS LIST

MANUAL

ISSUED

DATE

11/17/90

12/18/90

12/19/90

DESIGNED BY

M. QUAN

11/17/90

12/18/90

12/19/90

Cardkey

CONTROLLER ASSY, P900

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SEE (SERIAL NO.)

11-1524

SCALE 1/2"

DO NOT SCALE DRAWING

11 OF 2

MODEL NO.	PART NO.	VOLTAGE	AMPS	FUSE
PROD-Ctrl	11-1524-01	24 VDC	2 AMPS	EXTERNAL

REV	TO NO.	DESCRIPTION	DATE
A	8906	PRODUCTION RELEASE	11/17/90
B	8941	REVISED PER EO	1/18/91
C	8944	REVISED PER EO	3/1/91
D	9100	REVISED PER EO	3/1/91
E	9116	REVISED PER EO	4/7/91
F	9156	REVISED PER EO	4/7/91
G	9278	REVISED PER EO	4/7/91
H	9703	REVISED PER EO	11/17/90

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