

PART NUMBER: 23-837X5-00		LOCATION: E112	
DEVICE TYPE: PAL588		PIN NUMBER: SYMBOL TABLE:	
1= 10MHz	8= NOT DONE L	15= DEC DMIC L	
2= DM REQ H	9= INIT H	16= DM REQ L	
3= DM DONE H	10= GND	17= DM REQ L	
4= NPR MASTER L	11= GND	18= DM REQ L	
5= SSYN H	12= DM REQ L	19= DM REQ L	
6= UBERR H	13= DM REQ L	20= VCC	
7= DM REQ H	14= DATA TO UB L		

NOTES: DMPAL - (PRTP)  
FOR DMPAL-A (BLOCK COVER PAL - REV A)

OUTPIN 17	XXXXXXXXXXXXXXXXXXXX	DM REQ H	DM GRANT L	DM DONE L	UBERR H	INIT H
OUTPIN 16	XXXXXXXXXXXXXXXXXXXX	DM REQ H <td>DM GRANT L<td>ONE REQ L<td>NPR MASTER L<td>SSYN H</td></td></td></td>	DM GRANT L <td>ONE REQ L<td>NPR MASTER L<td>SSYN H</td></td></td>	ONE REQ L <td>NPR MASTER L<td>SSYN H</td></td>	NPR MASTER L <td>SSYN H</td>	SSYN H
OUTPIN 15	XXXXXXXXXXXXXXXXXXXX	DM REQ H <td>DM GRANT L<td>DATA TO UB L<td>UBERR H<td>INIT H</td></td></td></td>	DM GRANT L <td>DATA TO UB L<td>UBERR H<td>INIT H</td></td></td>	DATA TO UB L <td>UBERR H<td>INIT H</td></td>	UBERR H <td>INIT H</td>	INIT H
OUTPIN 14	XXXXXXXXXXXXXXXXXXXX	DM REQ H <td>DM GRANT L<td>UBERR H<td>INIT H</td><td></td></td></td>	DM GRANT L <td>UBERR H<td>INIT H</td><td></td></td>	UBERR H <td>INIT H</td> <td></td>	INIT H	
OUTPIN 13	XXXXXXXXXXXXXXXXXXXX	DM REQ H <td>DM GRANT L<td>UBERR H<td>INIT H</td><td></td></td></td>	DM GRANT L <td>UBERR H<td>INIT H</td><td></td></td>	UBERR H <td>INIT H</td> <td></td>	INIT H	
OUTPIN 12	XXXXXXXXXXXXXXXXXXXX	DM REQ H <td>DM GRANT L<td>DM DONE H<td>UBERR H<td>INIT H</td></td></td></td>	DM GRANT L <td>DM DONE H<td>UBERR H<td>INIT H</td></td></td>	DM DONE H <td>UBERR H<td>INIT H</td></td>	UBERR H <td>INIT H</td>	INIT H

REV. A	REV. B	REV. C	REV. D	REV. E	REV. F	REV. G	REV. H	REV. I	REV. J	REV. K	REV. L	REV. M	REV. N	REV. O	REV. P	REV. Q	REV. R	REV. S	REV. T	REV. U	REV. V	REV. W	REV. X	REV. Y	REV. Z	REV. AA	REV. AB	REV. AC	REV. AD	REV. AE	REV. AF	REV. AG	REV. AH	REV. AI	REV. AJ	REV. AK	REV. AL	REV. AM	REV. AN	REV. AO	REV. AP	REV. AQ	REV. AR	REV. AS	REV. AT	REV. AU	REV. AV	REV. AW	REV. AX	REV. AY	REV. AZ	REV. BA	REV. BB	REV. BC	REV. BD	REV. BE	REV. BF	REV. BG	REV. BH	REV. BI	REV. BJ	REV. BK	REV. BL	REV. BM	REV. BN	REV. BO	REV. BP	REV. BQ	REV. BR	REV. BS	REV. BT	REV. BU	REV. BV	REV. BW	REV. BX	REV. BY	REV. BZ	REV. CA	REV. CB	REV. CC	REV. CD	REV. CE	REV. CF	REV. CG	REV. CH	REV. CI	REV. CJ	REV. CK	REV. CL	REV. CM	REV. CN	REV. CO	REV. CP	REV. CQ	REV. CR	REV. CS	REV. CT	REV. CU	REV. CV	REV. CW	REV. CX	REV. CY	REV. CZ	REV. DA	REV. DB	REV. DC	REV. DD	REV. DE	REV. DF	REV. DG	REV. DH	REV. DI	REV. DJ	REV. DK	REV. DL	REV. DM	REV. DN	REV. DO	REV. DP	REV. DQ	REV. DR	REV. DS	REV. DT	REV. DU	REV. DV	REV. DW	REV. DX	REV. DY	REV. DZ	REV. EA	REV. EB	REV. EC	REV. ED	REV. EE	REV. EF	REV. EG	REV. EH	REV. EI	REV. EJ	REV. EK	REV. EL	REV. EM	REV. EN	REV. EO	REV. EP	REV. EQ	REV. ER	REV. ES	REV. ET	REV. EU	REV. EV	REV. EW	REV. EX	REV. EY	REV. EZ	REV. FA	REV. FB	REV. FC	REV. FD	REV. FE	REV. FF	REV. FG	REV. FH	REV. FI	REV. FJ	REV. FK	REV. FL	REV. FM	REV. FN	REV. FO	REV. FP	REV. FQ	REV. FR	REV. FS	REV. FT	REV. FU	REV. FV	REV. FW	REV. FX	REV. FY	REV. FZ	REV. GA	REV. GB	REV. GC	REV. GD	REV. GE	REV. GF	REV. GG	REV. GH	REV. GI	REV. GJ	REV. GK	REV. GL	REV. GM	REV. GN	REV. GO	REV. GP	REV. GQ	REV. GR	REV. GS	REV. GT	REV. GU	REV. GV	REV. GW	REV. GX	REV. GY	REV. GZ	REV. HA	REV. HB	REV. HC	REV. HD	REV. HE	REV. HF	REV. HG	REV. HH	REV. HI	REV. HJ	REV. HK	REV. HL	REV. HM	REV. HN	REV. HO	REV. HP	REV. HQ	REV. HR	REV. HS	REV. HT	REV. HU	REV. HV	REV. HW	REV. HX	REV. HY	REV. HZ	REV. IA	REV. IB	REV. IC	REV. ID	REV. IE	REV. IF	REV. IG	REV. IH	REV. II	REV. IJ	REV. IK	REV. IL	REV. IM	REV. IN	REV. IO	REV. IP	REV. IQ	REV. IR	REV. IS	REV. IT	REV. IU	REV. IV	REV. IW	REV. IX	REV. IY	REV. IZ	REV. JA	REV. JB	REV. JC	REV. JD	REV. JE	REV. JF	REV. JG	REV. JH	REV. JI	REV. JJ	REV. JK	REV. JL	REV. JM	REV. JN	REV. JO	REV. JP	REV. JQ	REV. JR	REV. JS	REV. JT	REV. JU	REV. JV	REV. JW	REV. JX	REV. JY	REV. JZ	REV. KA	REV. KB	REV. KC	REV. KD	REV. KE	REV. KF	REV. KG	REV. KH	REV. KI	REV. KJ	REV. KK	REV. KL	REV. KM	REV. KN	REV. KO	REV. KP	REV. KQ	REV. KR	REV. KS	REV. KT	REV. KU	REV. KV	REV. KW	REV. KX	REV. KY	REV. KZ	REV. LA	REV. LB	REV. LC	REV. LD	REV. LE	REV. LF	REV. LG	REV. LH	REV. LI	REV. LJ	REV. LK	REV. LL	REV. LM	REV. LN	REV. LO	REV. LP	REV. LQ	REV. LR	REV. LS	REV. LT	REV. LU	REV. LV	REV. LW	REV. LX	REV. LY	REV. LZ	REV. MA	REV. MB	REV. MC	REV. MD	REV. ME	REV. MF	REV. MG	REV. MH	REV. MI	REV. MJ	REV. MK	REV. ML	REV. MM	REV. MN	REV. MO	REV. MP	REV. MQ	REV. MR	REV. MS	REV. MT	REV. MU	REV. MV	REV. MW	REV. MX	REV. MY	REV. MZ	REV. NA	REV. NB	REV. NC	REV. ND	REV. NE	REV. NF	REV. NG	REV. NH	REV. NI	REV. NJ	REV. NK	REV. NL	REV. NM	REV. NN	REV. NO	REV. NP	REV. NQ	REV. NR	REV. NS	REV. NT	REV. NU	REV. NV	REV. NW	REV. NX	REV. NY	REV. NZ	REV. OA	REV. OB	REV. OC	REV. OD	REV. OE	REV. OF	REV. OG	REV. OH	REV. OI	REV. OJ	REV. OK	REV. OL	REV. OM	REV. ON	REV. OO	REV. OP	REV.
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W	DATE K	CODE CS	NUMBER 117792-0-TT2	REV. A
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8		7		6		5		4		3		2		1	
PART NUMBER: 23-089J5-00															
LOCATION: E50															
DEVICE TYPE: PAL16L8															
PIN NUMBER = SYMBOL TABLE:															
1 = UB UT HB H															
2 = TI1 UT L															
3 = DATA 15 H															
4 = DATA 14 H															
5 = DATA 13 H															
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10 = DATA 8 H															
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[illegible]



AUTOMATED BY PRLST.4Q(50)

P A R T S L I S T

SHEET A1 OF A3

LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION  
00

REFERENCE DESIGNATOR

1	1	D-MD-5015005-0-0	5015005-00	DRILL AND ETCH CUT	1	
2	2		1010978-36	1.1 MFD 50V 10% CER	1	C2
3	3		1002424-00	1200.0 MFD 100V 5%200PPM MICA	2	C4, C6
4	4		1000019-00	150.0 MFD 100V 5%200PPM MICA	2	C5, C7
5	5		1012784-00	.047 MFD 50V +80-20% CER	39	C14, C15, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C70-C78, C66, C67
6	6		1001610-00	.01 MFD 50V +80-20% Z5U CER	21	CONT
7	7		1005820-00	22.0 MMF 100V 5%200PPM MICA	2	C68
8	8		1000010-00	39.0 MMF 100V 5%200PPM MICA	1	D3, D4, D5, D6, D7
9	9		1100114-00	PIV= 25 IO=135 MA	5	E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14, E27, E28
10	10		2118054-03	16K MOS RAM 55NS 2	16	CONT
11	11		1913340-00	74532 OR GATE-QUAD 2IN	1	E15
12	12		1912851-00	LS169 COUNTER, SYNCH. UP/DO	9	E16, E18, E19, E20, E59, E60, E76, E134, E169
13	13		1912811-00	LS21 AND GATE-DUAL 4IN, PO	1	E17
14	14		1912849-00	LS161 COUNTER, SYNCH, 4BIT	9	E21, E24, E25, E26, E39, E40, E55, E156, E158
15	15		23000K4-01	PAL, LOGIC	5	CONT
16	16		1912805-00	LS08 AND GATE-QUAD 2IN, PO	4	E22, E23, E50, E102, E103
17	17		1912820-00	LS51 A-O-I GATE 2-WIDE 2I	2	E29, E38, E95, E167
18	18		1912803-00	LS04 INVERTER GATE, HEX	5	E30, E44
19	19		23000K5-01	PROGRAMMABLE LOGIC ARRAY	10	E31, E35, E78, E79, E149
20	20		1912799-00	LS00 NAND-GATE-QUAD 2IN, P	3	E32, E36, E37, E49, E51, E56, E70, E84, E85, E92
21	21		1912824-00	LS74 FF-D DUAL, EDGE TRIGG	4	E33, E52, E80

REVISION HISTORY

BASIC PART NO: M7793

DRN:

R LOVE

DATE: 09-14-82

ENG: ECO NUMBER

REV

SECTION A OF A

CHK'D: C COSTA

DATE: 09-14-82

TITLE PARTS LIST

DE UNA LINK MODULE

TE: M7793-TW003

B

SECTION VARIATION INDEX

DES. ENG: M STECKLAIR

DATE: 09-14-82

DOCUMENT NUMBER

NB: M7793-TW004

C

SECTION VARIATION INDEX

RESP. ENG.: M STECKLAIR

DATE: 09-14-82

MFG. ENG.: DANA DUNCAN

DATE: 09-14-82

ASSEMBLY NUMBER:

TOP DOCUMENT NUMBER:

FILE NAME:

EDIT #

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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
22	22	1910550-00	74S174 FF-D HEX	5	E41, E61, E101, E133, E159
23	23	1912810-00	LS20 NAND GATE-DUAL 4IN	1	E43
24	24	1911911-00	OSCILLATOR, DUAL VOLT	1	E45
25	25	1910534-00	74S04 INVERTER GATE-HEX 11	1	E46, E75, E87, E99, E115
26	26	1910537-00	74S11 AND GATE-TRIPLE 3INP	5	E47, E106
27	27	1912807-00	LS10 NAND GATE-TRIPLE 3IN	2	E48
28	28	1912847-00	LS157 MUX 1 OF 2(QUAD)	1	E53, E82
29	29	1915758-00	LS166 SHIFT REG. 8BIT PARA	2	E54, E69
30	30	1914085-00	74S260 NOR GATE-DUAL, POS	2	E57, E72
31	31	1910539-00	74S20 NAND GATE-DUAL 4INPU	2	E58, E88
32	32	1910536-00	74S10 NAND GATE-TRIPLE 3IN	2	E62, E109
33	33	1912850-00	LS164 SHIFT REG. 8BIT SERI	2	E63, E67
34	34	1914214-00	LS374 FF-D OCTAL EDGE TRIG	2	E64, E65, E66, E68, E98
35	35	1911983-00	74S133 NAND GATE-POSITIVE 1	3	E71, E104, EAI
36	36	1910957-00	74S175 FF-D QUAD COMMON CLO	1	E73
37	37	1910532-00	74S00 NAND GATE-QUAD 2IN	3	E74, E111, E135
38	38	1912646-00	LS253 MUX 1 OF 4 (DUAL)	8	E77, E124, E144, E145, E147, E148, E154, E155
39	39	1913671-00	74S374 FF-D, OCTAL, TRI STATE	2	E81, E120
40	40	1912746-00	DEC 74S37 NAND GATE-QUAD 2IN	2	E83
41	41	1910548-00	74S157 MUX 1 OF 2 (QUAD)	1	E86, E112
42	42	1911712-00	74S51 AND-OR GATE-INVERT D	2	E89
43	43	1912801-00	LS02 NOR-GATE-QUAD 2IN	1	E90, E139
44	44	1912389-00	74S08 AND GATE-QUAD 2IN, PO	2	E91
45	45	1912697-00	LS174 FF-D HEX W/CLEAR	4	E93, E108, E110, E123
46	46	1912816-00	LS32 OR GATE-QUAD 2IN, POS	2	E96, E138
47	47	1300005-01	R NETWORK 13-1K 5.0 * 14PIN	1	E97
48	48	1915019-00	74S38 NAND BUFFER-QUAD 2IN	1	E100
49	49	1914082-00	74S163 COUNTER, SYNCH UP/DOW	7	E105, E122, E137, E146, E153, E157, E166
50	50	1910544-00	74S74 FF-D DUAL, EDGE TRIGG	5	E107, E136, E168, E170, E171
51	51	1514962-00	TPQ2907 PNP 500MW SI 40 100	4	E113, E114, E116, E117
52	52	1915697-00	RAM 256X4 TRI-STATE	3	E118, E119, E121
53	53	1912813-00	LS27 NOR GATE-TRIPLE 3IN	1	E125
54	54	1912808-00	LS11 AND GATE-TRIPLE 3IN	1	E126
55	55	1918353-00	10231 FF-D MASTER-SLAVE	5	E128, E130, E151, E174, E175
56	56	1911402-00	10105 OR/NOR GATE, 2-3-2	4	E129, E131, E141, E152
57	57	1912096-00	DEC 74S86 XOR GATE, QUAD 2IN	1	E132
58	58	1611601-00	DELAY= 50NS, TAPPED LINE	1	E140
59	59	1913220-00	10216 RECEIVER, TRIPLE LINE	1	E142, E165
60	60	1811660-00	OSCILLATOR, XTAL 20.000 MHZ	2	E143
61	61	1911579-00	8641 TRANSCEIVER, BUS, QUA	1	E160
62	62	1619248-00	DELAY= 25/74NS ECL MULTI-LOGIC	1	E163
63	63	1911404-00	10107 XOR/NOR GATE, 3-2IN	1	E164
64	64	1913009-00	4N36 OPTO COUPLED ISLTR	1	E172
65	65	1912388-00	74S02 NOR GATE-QUAD 2IN, PO	1	E173
66	66	1209941-02	PCB, HEADER 40PIN(2X20), 100CC 90D	1	J1, J2
67	67	1209941-13	PCB, HEADER 19PIN(2X10), 100CC 90D	2	J3

TITLE

DE UNA LINK MODULE

SECTION A OF A

SIZE CODE DOCUMENT NUMBER

REV

K

PL

M7793-0-DBP

C

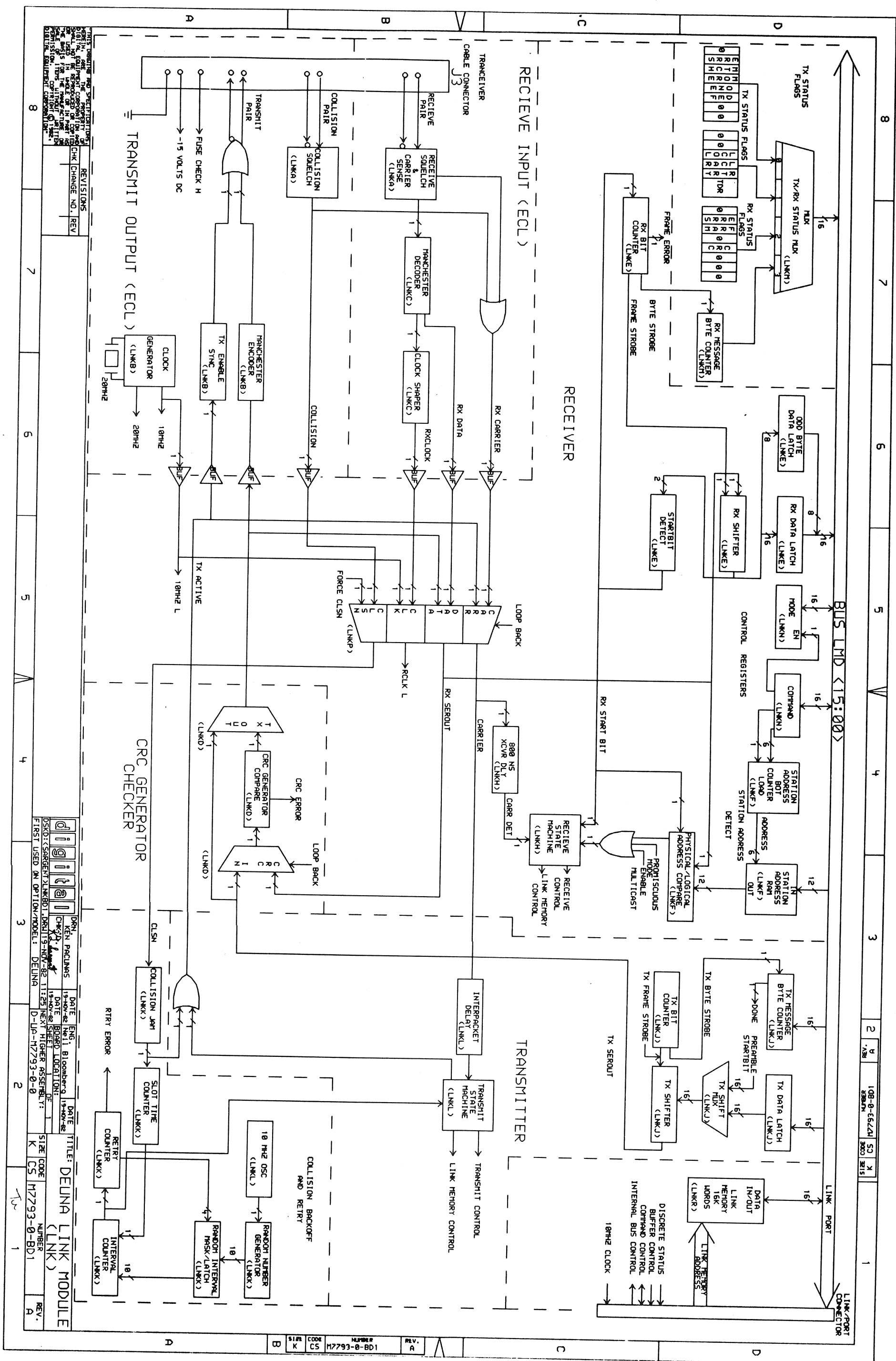
AUTOMATED BY PRTLST.4Q(50)

PARTS LIST

SHEET A3 OF A3

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
68	68	1301322-00	180.0 .25 W 5.0 % CF	27	R1,R32,R56,R78,R85,R86,R87,R89, R90,R91,R95,R100,R108,R111,R112, R114,R115,R118,R124,R137,R138, R146,R151,R152,R183,R171,R188, R2,R67,R102,R116,R125,R126,R129, R136,R157,R158,R159,R160,R161, R162,R163,R168,R178,R172,R4 R3,R5,R6,R8,R14,R19,R20,R128 R7,R9,R11,R12,R132,R134,R135, R141,R142,R186,R187 R10,R43,R45,R61,R63,R185 R13,R16,R21,R22,R27,R28,R37,R40, R41,R52 R15,R23,R24 R17,R48,R51 R18,R26,R30,R33,R36,R38,R47,R49, R50,R54,R57,R58,R107,R123,R140, R153,R154 R25,R31,R42 R29 R34,R59,R117,R131,R139,R155,R156 R35,R64,R65,R83,R84,R88,R96,R97, R103,R109,R110,R143,R147,R165, R180,R182 R44,R46,R60,R62,R66,R70,R77,R80, R93,R94 R53,R55,R69,R71,R76,R79
69	69	1300247-00	120.0 .25 W 5.0 % CF	19	CONT
70	70	1300229-00	100.0 .25 W 5.0 % CF	8	CONT
71	71	1300365-00	1.0 K .25 W 5.0 % CF	11	CONT
72	72	1302388-00	2.0 K .25 W 5.0 % CF	6	CONT
73	73	1302957-00	121.0 .25 W 1.0 % RN5SD-F10	10	CONT
74	74	1302872-00	681.0 .25 W 1.0 % RN5SD-F1	3	CONT
75	75	1303036-00	56.20 .25 W 1.0 % RN5SD-F10	3	CONT
76	76	1301972-00	270.0 .25 W 5.0 % CF	17	CONT
77	77	1301421-00	15.0 .25 W 5.0 % CF	3	CONT
78	78	1300479-00	10.0 K .25 W 5.0 % CF	1	CONT
79	79	1301775-00	820.0 .25 W 5.0 % CF	7	CONT
80	80	1300316-00	470.0 .25 W 5.0 % CF	16	CONT
81	81	1313150-00	430.0 .25 W 5.0 % CF	10	CONT
82	82	1305121-00	38.30 .25 W 1.0 % RN5SD-F10	6	CONT
83	83	1303179-00	*** THIS ITEM IS NOT USED ***	-	R74
84	84	1300271-00	8.20 K .25 W 5.0 % CF	1	R106
85	85	1300356-00	220.0 .25 W 5.0 % CF	1	R127,R170
86	86	1300309-00	820.0 .50 W10.0 % CF	2	R149
87	87	1300432-00	390.0 .25 W 5.0 % CF	1	R184
88	88	9009185-00	3.0 K .25 W 5.0 % CF	1	W1
89	89	1012084-01	JUMPER, WIRE, INSULATED, BLACK B	1	C1,C3,C8,C9,C10,C11,C12,C13
90	90	1216988-02	8 MFD .25V +75-10% AL EL	8	
91	91	9009000-00	HANDLE,MODULE,HEX TWO EJECTORS	1	
92	92	1302391-00	EYELET,ROLLED 0.1210DX0.156	12	
93	93	1304837-00	20.0 K .25 W 5.0 % CF	1	R144
94	94	1300488-00	24.0 K .25 W 5.0 % CF	1	R68
95	95	9105740-55	12.0 K .25 W 5.0 % CF	1	R75
96	96		WIRE(WRAP) 30AWG KYNAR UL14	A/R	

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							DE UNA LINK MODULE		K	PL	M7793-0-DBP	C







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281-0-56/41

CS

K

REV

1

TRANSMIT STATUS WORD 0 (LINK MEMORY BUFFER)

15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
0	E	R	R	R	0	0	0	0	0	0	0	0	0	0	0
0	R	R	R	0	0	0	0	0	0	0	0	0	0	0	0
0	S	R	R	0	0	0	0	0	0	0	0	0	0	0	0

TRANSMISSION DEFERRED

ONE COLLISION

MORE THAN ONE COLLISION

STATION ADDRESS MISMATCH ON TRANSMISSION

ERROR SUMMARY

RECEIVE STATUS WORD 0 (LINK MEMORY BUFFER)

15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
0	E	R	R	0	0	0	0	0	0	0	0	0	0	0	0
0	R	R	0	0	0	0	0	0	0	0	0	0	0	0	0
0	S	R	0	0	0	0	0	0	0	0	0	0	0	0	0

CRC ERROR

FRAMING ERROR

ERROR SUMMARY

TRANSMIT STATUS WORD 1 (LINK MEMORY BUFFER)

15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	L	C	C	L	R	T	R	T	R	T	R	T	R	T	R
0	L	C	C	L	R	T	R	T	R	T	R	T	R	T	R

CABLE FAULT DISTANCE COUNT

TRANSMISSION ABORTED-16 ATTEMPTS

LOSS OF CARRIER

TRANSMISSION ABORTED-LATE COLLISION

RECEIVE STATUS WORD 1 (LINK MEMORY BUFFER)

15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	L	C	C	L	R	T	R	T	R	T	R	T	R	T	R
0	L	C	C	L	R	T	R	T	R	T	R	T	R	T	R

MESSAGE LENGTH

LINK STATUS REGISTER FORMAT  
(WORDS 0 AND 1 OF LINK MEMORY BUFFER)

REVISIONS

CHK	CHANGE NO.	REV

8

7

6

5

4

3

2

1

DEUNA LINK MODULE  
(LINK)

REV. A

NUMBER

M7793-0-1R2

SIZE

K

CODE

CS

REV.

A