

SPARE MODULE HANDBOOK

digital



MARCH 1976

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INTRODUCTION

This document has been prepared to assist you in spare module identification/selection for DIGITAL's processors and peripheral equipment. Information is provided and cross-referenced by individual device (option) with detailed description data as well as module prices. The devices described in this booklet represent over 400 of DIGITAL's most popular options in operation throughout the world.

The data is presented in three sections:

- | | | |
|----|-----------------------|----------------------|
| I | Module/Option Listing | - Page 3 through 31 |
| II | Module Descriptions | - Page 33 through 57 |

*WARRANTY

Warranty for the modules listed in this document; i.e., A, B, G, K, M, R and W series modules, are warranted as stated below for a period of one year from date of shipment.

DIGITAL's modules are warranted against defects in material and workmanship under normal and proper use in their original unmodified condition. DIGITAL's sole obligation for equipment, defective under the terms of this warranty, is limited to repair or replacement (at its option), at its factory, at no charge to customer. All replaced equipment becomes the property of DIGITAL. As a condition of this warranty, customer must obtain a DIGITAL Return Authorization Number from the local DIGITAL Sales Office and must return all equipment, prepaid to:

Digital Equipment Corporation
111 Powder Mill Road
Stockroom 128
Maynard, MA 01754
Att: Customer Spares Module Repair
RA# _____

*Modules contained in these devices are warranted for a period of ninety (90) days under the conditions described above: LA35, LA36, LA180, PDP-8A, PDP-11/03, LSI-11.

Transportation charges for the return to the customer shall be paid by DIGITAL within the continental U.S.A. and Canada and will be made on a UPS or Parcel Post insured basis. The warranty outside of the continental U.S.A. and Canada is limited to repair or replacement only and excludes all costs of shipping, Customs clearance, and other related charges.

- Premium methods of shipment are available at customer expense and will be used only when specifically requested. DIGITAL maintains a factory repair service for customer convenience and will repair equipment beyond the warranty at then current prices as long as repair components are available. Repair Charge is \$15 or 15% of the module list price whichever is higher.
- All the above warranties include the DISCLAIMER OF WARRANTIES clause as contained in DIGITAL's Standard Terms & Conditions.

ORDERING/DELIVERY/REPAIR

For ordering instructions, delivery information or repair service on DIGITAL modules contact your local DIGITAL Sales Office.

PRODUCT LINE IDENTIFICATION

DIGITAL ORDER PROCESSING PERSONNEL SHOULD REFERENCE THE DEC STANDARD PRICE LIST FOR THE APPROPRIATE PRODUCT LINE WHEN ORDERING.

SECTION I

MODULE/OPTION LISTING

SECTION I

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
14/30	H763 H1500 H1550 H1600 H1650 M7431 M7432 M7433 M7483 M7741	8A400-BP/R	G8018 M8315 M8317	8A500-EM/N	M837 G8018 H9194 M8315	AA11-A	A614 G767 M105 M799 M7820
		8A400-EM/N	M837 G8018 M8315	8A500-EP/R	M837 G8018 H9194 M8315	AA11-B	A614 M105 M799 M7820
		8A400-EP/R	M837 G8018 M8315	8A500-HM/N	M837 G8018 H9194 M8315 M8316	AA11-C	A614 M105 M799 M7820
8A100-AC/D	G8016 H9192 M8311-YA M8315	8A500-BM/N	G8018 H9194 M8315 M8317	8A500-HP/R	M837 G8018 H9194 M8315 M8316	AA11-DA	H704-C G772 M105 M784 M920
8A100-AE/F	G8016 H9192 M8311-YB M8315	8A500-BP/R	G8018 H9194 M8315 M8317	8A500-IM/N	G8018 H9194 M8315 M8316 M8317	A11-DB	H704-H G772 M105 M784 M920
8A100-AK/L	G8016 H9192 M8311-YD M8315	8A500-CM/N	G8018 H9194 M8315 M8316 M8317	8A500-LP/R	G8018 H9194 M8315 M8316 M8317	AA50-AN	A614 H704 H716 M100 M102 M111
8A100-FA/B	G8016 H9192 M8315 M8349	8A500-CP/R	G8018 H9194 M8315 M8316 M8317				
8A400-BM/N	G8018 M8315 M8317						

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
AA50-AP	A614 H704 H716 M101 M103 M111 M115	AD01-AP	A220 A708 M626 A124 A812 M101 M103 M111 G735 M161 M216 M602	AD01-DB (Cont.)	A708 M302 M105 M111 M112 M113 M161 M206 M501 M617 M783 M784 M785 M7821 A812 H716 G735	ADF-15 (Cont.)	M302 M510 M617 M621 M622 M727
AA50-BN	A614 H704-D H716 M100 M102 M111	AD01-DA	A124 A220 A708 A812 M105 M111 M112 M113 M161 M206 M302 M501 M617 M783 M784 M785 M7821 A812 H716 G735	AD8-EA	A231 A841	ADU 01	A001 A002
AA50-BP	A614 H704-D H716 M101 M103 M111 M115			ADF-15	A222 A124 A461 A708 M101 M103 M104 M111 M113 M115 M117 M161 M211 M216	AFC11	G736 A905 M944 M3020 M7821 A150 A903 A904 A151 A219 A223 A877 G729 G730 H704 H740-D M105 M113 M141 M161 M206 M617 M624 M784 M798 M920
AD01-AN	M636 A220 A708 A124 A812 M100 M102 M111 M161 M216 M602 G735	AD01-DB	A220 A124				

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
AFC 15	A150 A151 A219 A903 A904 A905 G729 M920	AFC8-P (Cont.)	M101 M103 M113 M115 M161 M206 M623 M624 M3020	AIP-12 (Cont.)	854 854B A224 A224YA A224YB A224YC A226YA A226YB A226YC A862 G717 G783 H707 H721 M101 M103 M111 M112 M113 M115 M117 M121 M127 M133 M135 M141 M127 M307	AIP12-E (Cont.)	A226 M238
AFC8-N	A150 A151 A219 A223 A872 H704 H740 M100 M102 M111 M113 M115 M161 M206 M624 M633 M920 M944 M3020	AH04 AH05 AIP-12	A405 A862 M939 W023 M1713 M307 M310 M311 M415 M611 M623 M627 M734 M906 M908 M155 M178 M205 M216 M231 M238 M242 M245 A226 A440		M159 M238 M245 M734 A440 A224		
AFC8-P	A151 A219 A223 A872 G729 H740-D M002			AIP12-D AIP12-E		BA11-EA AR11 BA10 BA11-BA BA11-BB BA11-CC BA11-DA BA11-CS BA11-DB BA11-ES BA11-FA BA11-FB	A232 M7809 B133 B134 B165 R303 S107 S111 W107 H750 H750 H720-E H750 H720-E H750 H720-E H742-A H744 H745 H742-A H744 H745

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
BA11-FC	H742A H744 H745	BA11-KJ	H744 H745 H754 H765-B	BD15 (Cont.)	M306 M311 M401 M510 M602 M611 M621 M622 M942 M944 M984	BW730	W730
BA11-FD	H745 H744 H742A	BA150	A150			BW732	W732
BA11-FE	H745 H744 H742B	BA233	A233			BW734	W734
BA11-FH	H745 H744 H742A H754	BA234	A234			CB11	M7281 M7282 M7291 W9800
BA11-FJ	H745 H744 H742-B H754	BA235	A235	BM681	M681	CC01	H716 M111 M921
BA11-KE	H745 H744 H754 H765-A	BA236	A236	BM684	M684	CC02	M103 M112 M113 M117 M119 M169 M206 M302 M304 M401 M617 M624
BA11-KF	H745 H744 H754 H765-B	BA633	A633	BM686	M686	CC03-A	M002 M103 M121 M206 M304 M307 M510-YA M623 M624 M627
BA11-KH	H744 H745 H754 H765-A	BA903	A903	BM792	M792		
		BA904	A904	BM802	M802		
		BA905	A905	BM804	M804		
		BD15	G716 A223 A872 G829 M103 M104 M112 M115 M117 M119 M121 M133 M161 M205 M302	BM806	M806		
				BM873-YA	M873-YA		
				BM873-YB	M873-YB		
				BM873-YC	M873-YC		
				BM873-YD	M873-YD		
				BM873-YF	M873-YF		
				BW410	W410		

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
CC03-B	M121 M206 M510YA M624	CM11	M829 M105 M7820	CR10-EA	B133 B134 B137 B152 B163 R001 R201 R302 R613 S107 S202 S203 W005 W504 W510 W601	DC10-B (Cont.)	R001 R123 R405 R613 S107 S111 S151 S602 W510 W511 W602 W706 W707 W708 W990
CC04	M103 M117 M206 M307 M401 M501 M624 M627	CR10-DA	B133 B134 B137 B152 M163 R001 R201 R302 R613 S107 S202 S203 W005 W504 W510 W601	CR11	M8290	DC10-E	B133 B134 B135 B137 B163 B165 R302 R613 S107 S151 S202 S203 W504 W511 W602
CC55-A	H304			CR11-A	M8290		
CC55-B	H304			CR8-FA/FB	M843		
CD11	M7249 M112 M113 M117 M203 M205 M239 M304 M611 M721 M783 M784 M796 M957 M7219 M7821	CR10-DB	B133 B134 B137 B152 B163 R001 R201 R302 R613 S107 S202 S203 W005 W504 W510 W601	DA11-B	M7229		
				DA11-F	M7283 M7284		
				DB11	M7212 M7213 M783 M784 M785 M7248	DC11	G727 H315 M105 M454 M591 M594
CM8-FA	M843			DC10-B	B133 B152 G796		
CM8-FB	M843						

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
DC11 (Cont.)	M794 M7820 M7821	DC76-A (Cont.)	M173 M174 M175 M177	DC76-D (Cont.)	M7278 M7279 M7280 M7288	DF32 (Cont.)	G285 G286 G717 R107
DC14-A	M859 M749		M178 M181		M7289 M7821		R111 R113 R123
DC14-B	M8332	DC76-D	G109 G231	DF10	B124 B130		R202 R203
DC14-C	M8333		H215 M002		B133 B134		R205 R302
DC14-D	M8334		M105 M117		B135 B163		R303 R602
DC14-E	M7481		M594 M596		B165 B167		R603 W103
DC14-F	M7483 M8655		M783 M784 M785		B214 B311 B683		W532 W533 W990
DC76-A	G109-YA G231 G380 H215 M002 M050 M105 M117 M126 M128 M130 M143 M145 M147 M151 M152 M166 M170 M171 M172		M787 M796 M920 M930 M971 M973 M981 M4540 M7212 M7213 M7231 M7232 M7233 M7234 M7235 M7246 M7247 M7248 M7259 M7277		B685 B685 G704 S202 S603 W102	DF32-D	G294 G295 G296 M233 M101 M103 M111 M112 M113 M115 M117 M160 M205 M206 M302 M310 M602 M617 M623
				DF11-A	M594		
				DF11-BA	M586		
				DF11-BB	M587		
				DF11-F	M596		
				DF11-G	M595		
				DF11-K	M598		
				DF32	G083 G284		

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
DF32-D (Cont.)	M902 M906 G0850	DH11-AC (Cont.)	M920 M971 G7360 M4540	DH11-AE (Cont.)	M7279 M7280 M7288 M7289 M7821 H315 H8611	DK10 (Cont.)	R001 R002 R302 R303 R405 S107 S111 S181
DFC11-A	M5942		M7277 M7278 M7279 M7280 M7288 M7289 M7821 M974				S202 S203 S602 S603 W010 W107
DH11-AA	H758-A M796 M920 M971 G7360 M4540 M7277 M7278 M7279 M7280 M7288 M7289 M7821 M974	DH11-AD	M796 M920 G7360 M4540 M5906 M7277 M7278 M7279 M7280 M7288 M7289 M7807 M7808 M7821 H315 H861 H8611	DJ11-AA	H315 M105 M920 M5901 M7279 M7280 M7285 M7821		
				DJ11-AB	M105 M920 M5900 M7279 M7280 M7285 M7821	DK8-EA	M882
						DK8-EC	M8830
DH11-AB	H758-A M796 M920 M971 G7360 M4540 M7277 M7278 M7279 M7280 M7288 M7289 M7821 M974					DK8-EP	M518 M860
				DJ11-AC	M105 M920 M5902 M7279 M7280 M7285 M7821	DKC8-AA	M8316
		DH11-AE	M796 M920 G7360 M4540 M5906 M7277 M7278			DL10	G830 M050 M126 M128 M130 M143 M145 M147 M151 M152 M166 M170
DH11-AC	H758-B M796			DK10	B135 B137 B141 B152 B163		

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
DL10 (Cont.)	M171 M172 M173 M174 M175 M177 M178 M181 M241 M243 M246 M307 M308 M321 M362 M511 M564 M565 M592 M603 M612 M629 M663 M664 M665 M921 M931 M948 M952 M956 M969 W106 M7100	DL11-B DL11-C DL11-D DL11-E DL14-A DLV11 DM11-AA	G8000 M7800 H315 G8000 M7800-YA H315 G8000 M7800 H315 G8000 M7800 H315 M7400 M7403 M7404 M7405 M7450 M7940 M7243 M7245 H758-A M594 M596 M7241 M7821 M793 M4050 M7240 M7242	DM11-AB (Cont.) DM11-AC DN11 DP11-AA DP11-CA DP11-KA	M793 M4050 M7240 M7241 M7242 M7243 M7245 M7281 H758-B M594 M596 M793 M4050 M7240 M7241 M7242 M7243 M7245 M7821 M7226 M105 M117 G8000 M7820 M7223 M105 G8000 M7065 M7075 M7821 M7065 M239 M405	DP8-E DQ11-AA DQ11-AB DQ11-BA DQ11-BB DQ11-KA DR11-A DR11-B DR11-C DR11-K DR15-C	M839 M866 M7812 M7813 M7818 M7816 M7815 M7817 M4050 M105 M786 M7821 M9680 M112 M113 M116 M205 M208 M239 M611 M796 M7219 M7821 M9760 M7860 M7843 M103 M104 M111
DL11-A	M7800-YA H315 G8000	DM11-AB	M594 M596				

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
DR15-C (Cont.)	M112 M113 M115 M161 M216 M510 M621 M622	DS11 (Cont.)	M307 M321 M362 M401 M603 M612 M783 M784 M785	DT11-A (Cont.)	M205 M246 M307 M311 M602 M611 M627 M783 M784 M785 M821 M821 M906 M930 M1103 M1307	DT11-B (Cont.)	M611 M627 M783 M784 M785 M821 M930 M1103 M1307 M7212 M7213 M7248 M7821
DR8-E	M863		M931 M969		M785 M821		M7212 M7213
DRV-11	M7941		W990 M7110		M906 M930		M7248 M7821
DS8-EA	M518		M7820		M1103 M1307	DT03-CS	B163 B683 B684 B685 R002 R107
DS11	G830 M002 M105 M126 M128 M139 M143 M145 M147 M152 M165 M171 M173 M174 M175 M177 M178 M181 M211 M241 M243 M246 M253	DS32	G083 G284 G285 R107 R113 R302 R602 W532 W533	DT11-B	G736 H726-F K265 M002-YA M105 M111 M112 M113 M115 M116 M117 M127 M181 M205 M246 M307 M311 M602		R113 R123 W005 W051 W107 W501
		DT11-A	M127 G736 M181 H726-F K265 M002-YA M105 M111 M112 M113 M115 M116 M117 M127 M181 M205 M246 M307 M311 M602			DT03-FM/FP	K303 M105 M111 M112 M113 M115 M133 M205 M242 M312 M593

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
DT03-FM/FP (Cont.)	M611	DVS11-A	M105	DW08-A (Cont.)	M651	FP15 (Cont.)	M133
	M627		M111		M907		M135
	M783		M112	DW08-B	H716		M139
	M784		M113		M051		M155
	M785		M115		M508		M159
	W816		M116		M660		M191
	M7212		M117		M906		M205
	M7213-YA		M119		DX10		M564
	M7248		M121	M664			M238
	M7821		M149	M8311-YD			M242
	DT05-CS		B133	M152			M8315
B212		M165	M8596	M311			
B683		M169	M8597	M510			
B685		M205	M8598	M606			
G700		M206	M8599	M611			
G703		M239	DX11	M622			
W102		M253		G890	M627		
W132		M304		H740-D	M902		
W501		M401		M105	M911		
W051		M606		M405	M1701		
DU11-DA		H315	M611	FPP12	M101		
	M7822	M783					
	DU11-EA	M595	M784			M112	
M7822		M785	M133				
H315		M795	M135				
DV11		M7807	M796			M139	
		M7808	M797			M155	
		M7836	M798			M172	
		M7837	M2500			M178	
		M7838	M7246			M190	
		M7839	M7247			M191	
		DW08-A	H325	M7821	M216		
			H861	M7826	M238		
	H8612		H716	M401			
	FP11-B		FP15	M101	M611		
				M517	M623		
M8112		M734					
M8113							
M8114							
FP15	FP15	M8115					
		M129					
		M775					
		G829					
		H721					
		M112					

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
FPP12 (Cont.)	W130 W131	IAA11-BA	A233 A633	IAD-IA	A005	ICS8-MB (Cont.)	H912 M8091 M8092
GT40	A225-YB A320 G110 G231 G840 H214 W684 M7011 M7013 M7014 M7260 M7261 M7800 H315 W984	IAA11-BB	A234 A633	ICR11-AA	M8094 M8096 M8098	IDA-OA	A6330
		IAA11-BC	A235 A633	ICR11-AB	H772-B M8094 M8096 M8098	IDA11-AA	W406 W741
		IAA11-BD	A236 A633	ICR11-CA	H772-CA M8094 M8096 M8098	IDA11-AB	W410 W741
		IAA8-BA	A233 A633	ICR11-CB	H772-CB M8094 M8096 M8098	IDA11-BA	W406 W743
		IAA8-BB	A234 A633			IDA11-BB	W410 W743
		IAA8-BC	A235 A633			IDA11-CA	W406 W734
H720-E	H720-E	IAA8-BD	A236 A633	ICS11-MA	H772-A M930 M8090	IDA11-DA	M681 W406
H720-F	H720-F	IAC-IA	H912 W7411	ICS11-MB	H772-B M930 M8090	IDA11-EA	M685 W406
H724	H724	IAC-IB	H912 W7431	ICS8-MA	G717 H772-A H912 M8091 M8092	IDA11-FA	M687 W406
H724-A	H724-A	IAC-OA	H912 H1601 M6850			IDA11-GA	M803 W406
H740-D	H740-D	IAC-OB	H912 H1601 M6870	ICS8-MB	G717 H772-B	IDA11-HA	M805 W406
H742-A	H742-A H744 H745					IDA11-JA	M807 W406
H742-B	H742-B H744 H745						

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
IDA8-AA	W406 W740	IDC-IC	W7440	KA10 (Cont.)	B312 B611 B684 G700 G704 G913 R001 R002 R220 R302 R303 R401 R601 R602 R613 S107 S111 S202 S203 S205 W002 W005 W040 W102 W501 W504 W510 W520 W602	KA11 (Cont.)	M225 M724 M725 M727 M728 M726 M823
IDA8-AB	W410 W740	IDC-ID	W7411			KA8-E	M8350
IDA8-BA	W406 W742	IDC-IE	W7431				
IDA8-BB	W410 W742	IDC-OA	M6850			KB11-A	H744 H745 M8100 M8101 M8102 M8103 M8104 M8105 M8106 M8109 M8116
IDA8-CA	W406 W734	IDC-OB	M6870				
IDA8-DA	M681 W406	IMX-IA	A007				
IDA8-EA	M684 W406	IRL-OA	M8030				
IDA8-FA	M686 W406	IRL-OB	M8050				
IDA8-GA	M802 W406	KA10	B130 B133 B134 B135 B136 B137 B138 B141 B152 B156 B163 B165 B167 B168			KB11-B	M8130 M8131 M8132 M8133 M8134 M8135 M8136 M8137
IDA8-HA	M804 W406						
IDA8-JA	M806 W406			KA11	M820 M821 M822 M824 M825 M224		M8138 M8139 M8140 M8141 M8142 M8143
IDA8-IA	W7410						
IDA8-IB	W7430						

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
KB11-B (Cont.)	M8144 M8145	KE11-F	M7239	KI10 (Cont.)	H704-C M247	KI10 (Cont.)	M246 M253
KC11	M7216 M224 M225 M721 M724 M725 M726 M727 M728 M820 M821 M822 M823	KE8-E	M8340 M8341		M321 M564 M565 M603 M612 M664 M666 M969 M128 M130 M151 M250 M171 M181 M241 M243 G831 G913 H723 H725 H732 K003 K026 K113 K138 K303 K522-YA K614 K652 K683 K731 K732 M040 M126 M139 M165		M260 M307 M308 M401 M405 M501 M665 M921 M952 M956 R401 W106 W509 W519 W520 W841 M3070 M5940
KD11-A	M7231 M7232 M7233 M7234 M7235 M981	KF11-A	M7218				
		KG8-EA	M884				
		KG11-A	M7251				
		KH11-A	M724-YA M725-YA M726-YA M727-YA M728-YA M822-YA M824-YA M825-YA M7216-YA M8251				
		KI10	G830 M166 M170 M172 M173 M174 M175 M177 M178 M663 M142 M143 M145 M147 M931 A133				
KD11-B	M7260 M7261					KJ11-A	M7237
KD8-E	M8360					KK8-E	H851 M8300 M8310 M8320 M8330
KE11-A	M234 M7210 M7211 M827					KL10-A	H744 H745 H754 H770 G8010 G8011 G8013 G8014
KE11-B	M7840						
KE11-E	M7238						

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
KL10-A (Cont.)	G8015	KL10-A (Cont.)	M9304	KL8-FJ	M8652-YC	KP15 (Cont.)	M515
	G8017		M9304-YA	KL8-FK	M8652-YA		M622
	M8510	M9305	KL8-JA	M8655	M627		
	M8511	M9305-YA	KL8K	M8655	M706		
	M8512	W7000	KL8-KA	M8655	M707		
	M8513	KL8-EA	M8650	KL8-KB	M773		
	M8514	KL8-EB	M8650-YA	KL8-KC	M910		
	M8515	KL8-EC	M8650-YA	KL8-KD	M966		
	M8516	KL8-ED	M8650-YA	KL8-KM	KT11-B	M111	
	M8517	KL8-EE	M8650-YA	KL8-KD	M8655-YC	M112	
	M8518	KL8-EF	M8650-YA	KL8-M	M8653	M116	
	M8519	KL8-EG	M8650-YA	KP11-A	M7217	M133	
	M8520	KL8-F	M8652	KP15	M129	M135	
	M8521	KL8-FA	M8652		M402	M139	
	M8522	KL8-FB	M8652-YA		M775	M167	
	M8523	KL8-FC	M8652-YA		G821	M203	
	M8524	KL8-FD	M8652-YA		M111	M206	
	M8525	KL8-FE	M8652-YA		M112	M207	
	M8526	KL8-FF	M8652-YA		M133	M225	
	M8527	KL8-FG	M8652-YA		M139	M240	
	M8528	KL8-FH	M8652-YB		M164	M244	
	M8529				M214	M259	
	M8530				M216	M602	
	M8531				M219	M611	
	M8532				M226	M627	
	M8533				M227	M721	
	M8537				M240	M783	
	M8538				M242	M784	
	M8539				M452	M826	
	M8549					M930	
	M8550						
	M8551						
M8552							
M8553							
M8554							
M8558							
M8559							
M8560							
M8563							
						KT11-C	M8107
							M8108
						KT11-D	M7236
							M7237

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
KW11-L	M787 A612 A712	LC11-A	M791 M105 M7820	LP10-A/D (Cont.)	B684 R201 R302 R303 R613 S107 S111 S151 S181 S202 S203 S205 S602 W005	LPS11	A241 A242 A406 A407 A625 A804 M7015 M7016 M7017 M7018 M7019 M7020
KW11-P	M7228 A612 A712	LC8-E	M8329				
		LC8-L	M7718 M7719				
KW11-W	M105 M7821 M7823	LE8	M841				
		LP08-N	H716 M100 M101 M102 M103 M111 M115 M216 M623 M633	LP11	M7930	LPS11-S	M7015
KY11-E	M8280			LP15	M103 M104 M112 M205 M206 M311 M622	LPSAD-12	A406 A407 A804 M7015 M7018
LA8-P	M8365					LPSAD-NP	M7015 M7020
LA11-P	M7258			LPC8	M100 M101 M102 M103 M111 M112 M216 M302 M522 M623 M633	LPSAG	A242, M7015
LA30	M598 M973 M7389 G380 G381 G8004 M7710 M7712 M7713 M7715 M7716 M7717 M7721 M7724 G936 H605 H735 M7731	LP08-P	H716 M101 M103 M111 M115 M216 M623			LPSAG-VG	A241, M7015
		LP10-A/D	B133 B134 B135 B137 B152 B163 B165			LPSAM-E	A407 M7015
LA36	M7722					LPSAM-SG	A408 M7015
						LPSDA	A625 M7015
						LPSDR	M7015 M7017

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
LPSDR-A	M7015 M7023	MA10 (Cont.)	G703	MC70-B	B104	ME10 (Cont.)	W505
LPSKW	M7015 M7016		G704		B169		W507
			G805		B213		W612-YA
LPSSH	A406 M7015		G810		B310		W692
			G816		B360		
			M502		G009		ME11
LPSVC	A625 M7015 M7019		R303		G219		G231
			W102		G805		H214
			W501				
			ME10		G102		ME15
LS8-E	M8342	B104	G103	H215			
		B105	G230	M7170			
		B113	B133				
		B133	B135	MF10	G113		
LS11	M7258	B155	B136	G704			
		B171	B137	H744			
MA10	G217 B133 B134 B135 B137 B165 B169 B172 B212 B214 B311 B312 B611 B685 G022 G023 G219 G626 G700	B204	B165	H745			
		B211	B169	K138			
		B360	B173	K614			
		B602	B212	K731			
		B681	B214	M126			
		B684	B311	M165			
		G005	B312	M502			
		G008	B611	M664			
		G010	B685	M988			
		G206	G023	M363			
		G207	G226	M564			
		G212	G805	M565			
		G604	G828	M612			
		R303	M143	H216			
		W102	M502	M7112			
		W301	R107	B133			
		W501	R303	B136			
W607	W122	B137					
	W132	B165					

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
MF10 (Cont.)	B169-YA	MG10-A (Cont.)	M8593-YA	MM11-L	H214	MM15 (Cont.)	G823
	B173		M8594		G110		G825
	B214		M9005		G231		M113
	B311	MI8-EJ	M847	MM11-LP	G109	M133	
	B312		M8148		H215	M223	
	B611		M8149		G231	M240	
	B612	MJ11-AA	M8148 M8149	MM11-M	G110	M311	
	B685				MJ11-AB/AD/ AG/AH/AY/ AZ	G114	M312
	W110				G114	G231	M622
	W122		H217-C		H213	MM8-E	G104
	W132		M8148	MM11-S	G110		G227
	W519		M8149		G231		H220
	W612				H214	H851	
	MF11-U	H217D	MJ11-AE/AM	G114	MM11-U	G114	MM8-EJ
H754		G235		H217-D		G111	
G114		H217-C		G235		G223	
G235				M8293		H851	
M8293		MM11-E	M729			M837	
MF11-UP	G114		G102	MM11-UP	G114	MM8-IA	G020
	G235		G103		G235		G221
	H217-C		G225		H217-C		G228
	H754		G226		M7259		G611
	M7259		H207		M8293		G805
	M8293		MM11-F		G102		
MG10-A	H742-A		G103	MM14-A	G110	MM8-IB	G021
	H744		G225		G231		G221
	H754		G226		H213		G228
	H770		H207		H716		G611
	M8562		M7290		M930		G805
	M8588				M7407		
	M8589	MM11-K	H213	MM15	G100		
	M8590		G110		G222		
	M8591		G231		G223		
	M8592				G822		
M8593							

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
MM8-IB (Cont.)	G826 M113 M216 M310 M360 M617	MR16-SL	M1703 M1705	MX15-B (Cont.)	M216 M246 M311 M312 M611 M621 M622 M627 M783 M784	NP02-LA	H719 M103 M104 M111 M112 M113 M115 M117 M205 M206 M302 M510 M606 M623
MM8-IE	G020 G221 G228 G611 G805 G826 H716 M113 M216 M310 M360 M617	MR8-E	G643 M880				
		MR8-FA	M8349 M8349-YA				
		MR8-FB	M8349 H8511 M8330	NN01-A	A607 M002 M103 M111 M113 M205 M236 M302 M401 M510 M623 M624 M701 R001	NP11-M	M050 M101 M105 M111 M112 M113 M121 M169 M205 M206 M211 M302 M510 M606 M617 M623 M782 M783 M784 M785 M795 M796 M951 W970
		MR8-SL	M1705				
		MS11-BC	H746 H744 M8110				
		MS11-BD	M8110				
MR11-A	G642 M788	MS11-BM	G401				
MR11-B	G642 M788	MS11-BP	G401-YA				
MR11-DB	M792-YD M792-YE	MS11-CC	H744 M8110	NN01-B	M002 M103 M111 M113 M205 M236 M302 M401 M510 M623 M624 R001		
MR11-E	G102 G103 G225-YA G226 H207-E M107 M729-YA	MS11-CM	M8111				
		MS11-CP	M8111-YA				
MR14	G923-YA	MX15-B	M688 M111 M112 M133 M135 M164				

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
PA611-P	M060 M105 M113 M216 M710 M783 M784 M7820	PC04 (Cont.)	M113 W023 W033 W040 W077 W512	PDP11R20 (Cont.)	M726 M727 M728 M820 M821 M822 M823 M824 M825 M930 W930 G7270	PDP-16M (Cont.)	M7335 M7336
PA611-R	M060 M105 M112 M113 M216 M455 M611 M783 M784 M7820	PC05	G918 M040 M044 M710 M715 M903 W023 W077 M7050	PDP-16M	H851 M623 W971 M1103 M1307 M7300 M7301 M7305 M7306 M7307 M7310 M7311 M7313 M7318 M7319 M7322 M7325 M7327-YA M7327-YB M7327-YC M7327-YD M7328 M7329 M7332 M7334	PDP-8E	H724 H851 M8300 M8310 M8320 M8330
PA63	H721 M060 M103 M113 M141 M401 M624 M710	PC11	M7810			PDP-8F	H851 M8300 M8310 M8320 M8330
PA68-F	H716 M060 M710	PC8-E	M840			PDP-8M	H851 M8300 M8310 M8320 M8330
PC01	G908	PDM70	H755 M598 M7379 M7380 M7381 M7382 M7383 M7384 M7385 M7386 M7387 M7388			PP67-C	G915
PC04	G918 M0404 M044					PP67-D	G915
		PDP11R20	M224 M225 M724 M725			PR11	G918 M040 M715 M7050 M7810
						PR68-A	G900
						PR68-D	G918 G930

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
PT08	R401 W103 W705 W706 W707	RA10 (Cont.)	W102 W107 W505 W592 W693 W990	RC10 (Cont.)	S602 S603 W010 W102 W107 W505 W514 W693 W802 W808 M796 M7219 M7220 M7221 M7222 M7821	RF11 (Cont.)	M111 M113 M117 M149 M161 M205 M216 M306 M311 M500 M627 M632 M784 M795 M796 M797 M798 M7821 M930
RA10	B133 B134 B135 B137 B141 B152 B156 B163 B165 B212 B214 B311 B611 B683 B684 B685 G704 G715 R201 R220 R302 R401 R601 R613 S111 S181 S202 S203 S205 S602 S603 W010	RC10	B133 B134 B135 B137 B141 B152 B156 B163 B165 B214 B311 B611 B683 B684 B685 G700 G704 R001 R002 R201 R212 R220 R302 R303 R401 R601 R613 S111 S202 S203 S205	RC11	M796 M7219 M7220 M7221 M7222 M7821	RH10	G700 H742-A H744 M126 M139 M143 M145 M147 M152 M170 M171 M172 M128 M130 M151 M592 M181 M241
				RF08	B133 B134 B137 B165 B310 B312 B683 G719 S123 S206		
				RF11	H726-E G916 M105		

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
RH10 (Cont.)	M243 M321 M564 M173 M603 M612 M664 M969 H745 M7100 M174 M175 M177 M178 M246 M307 M308 M565 M663 M665 M866 M905 M931 M952 M956 W106 W521 M3070 M5903-YA M5904 M7100	RH11-AB (Cont.) RH70-A RK05 RK11-C	M7296 M7297 M9300 M5904 M8150 M8151 M8152 M8153 M7700 M7701 M7702 H604 G938 G180 M623 M930 M938 M7104 G740 H720-E M105 M111 M112 M113 M116 M149 M161 M205 M208 M214 M236 M238 M239 M307 M405	RK11-C (Cont.) RK11-D RK11-E RK8-E RK8-F RM10-B RP04-AA/AB/ BA/BB	M623 M784 M795 M796 M797 M798 M7821 M7254 M7255 M7256 M7257 M7254 M7255 M7256 M7104 M7105 M7106 M105 M7104-YA M7105-YB M7106 W693 B134 B165 B168 B214 B301 B611 G715 S202 H764 M7772	RP04-AA/AB/ BA/BB (Cont.) RP10	M7773 M7774 M7775 M7776 M7777 M7778 B133 B134 B135 B136 B137 B141 B152 B163 B165 B169 B172 B212 B214 B311 B312 B405 B410 B611 B683 B685 G590 G700 G704 G805 G810 R201 R220 R302 R303 R601 R602
RH11-AB	M688 M920 M5903-YA M5904 M7294 M7295						

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
RP10 (Cont.)	R613 S111 S181 S202 S203 S602 W102 W107 W505 W591 W692	RP11-E (Cont.)	M121 M133 M149 M152 M161 M164 G820 M002 M103 M105 M111 M113 M115 M238 M302 M311 M312 M401 M405 M420 M510 M602 M606 M622 M627 M795 M796 M7821	RS03 (Cont.)	M7751 M7753 M7754 M7755 M7756 M7759 M7770 M7771 M7757	RS09	G085 G285 G286 G290 G821 M111 M622
RP11-C	M002 M105 M115 M117 M161 M169 M206 M302 M420 M510 M606 M622 M627 M795 M796 M7821		M111 M113 M115 M238 M302 M311 M312 M401 M405 M420 M510 M602 M606 M622 M627 M783 M784 M795 M796 M798 M911 M2500 M7821 W7040	RS04	G092 G182 M5903 M7751 M7752 M7753 M7754 M7755 M7756 M7759 M7770 M7771 M7757	RS09-A	G085 G285 G286 G290 G711 G723
RP11-E	M169 M202 M204 M205 M206 M207 M212 M117 M119	RS03	G092 G182 M5903	RS08	G286 B134 B135 B165 B301 B312 B683 G084 G085 G285 G286 R302 S206	RS11	G085 G285 G286 G290 B683
						RS64	G088 M167 G295 G296 G291 M111 M113 M163 M205 G8002
						RT01	M7390 M7391 M7393
						RT02A	H753 M7390 M7395

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
RT02B	H753 M7390 M7395 M7399	TC02	G882 R113 S107 S111 S123 S151 S202 S203 S602 W104 W107 W640 W982 W984	TC08 (Cont.)	M633 W984	TC11-AB (Cont.)	M302 M307 M502 M602 M611 M784 M795 M796 M7821
RX01	M7726 M7727			TC11-AA	G888 H720-E M105 M111 M115 M117 M121 M149 M161 M205 M228 M239 M302 M307 M502 M602 M611 M784 M795 M796 M798 M7821	TC12	G888 M115 M212 M216 M222 M304 M307 W512 W982
RX11	M7846						
RX8-E	M8357						
TA11	M7892						
TA8-E	M8331						
TC01	G882 G711 G860 M602 R111 R123 R151 R202 R203 R302 R303 R401 S107 S111 S151 S202 S205 W103 W520 W982 W984	TC08	G717 G829 G888 H716 H721 M101 M103 M111 M112 M113 M115 M117 M119 M121 M206 M207 M228 M302 M307 M502 M602 M623 M627	TC11-AB	G888 H720-F M105 M111 M115 M117 M121 M149 M161 M205 M228 M239	TC15	G888 M103 M104 M141 M216 M302 M307 M311 M401 M501 M622
						TC58	B130 R113 R123 R201 R205 R602

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
TC58 (Cont.)	R603 W103 W104 W107	TM10 (Cont.)	B685 G704 G747 R002 R107 R113 R123 R141 R201 R302 R303 R601 R613 R663 S107 S111 S151 S181 S202 S203 S205 S602 W107	TM11 (Cont.)	M239 M304 M307 M627 M688 M784 M785 M795 M796 M797 M798 M7821	TMA11 (Cont.)	M7821 M7854
TC59	B130 R107 R111 R113 R123 R151 R201 R203 R205 R602 R603 S107 W103 W104 W107 W640 W982					TM8E	M8321 M8322 M8323 M8327 M989 861-B 861-C
TD8E	M868					TR79F	G736 M105 M111 M112 M113 M115 M117 M119 M121 M149 M162 M163 M203 M204 M205 M206 M207 M302 M304 M306 M606 M617 M622 M783 M784 M795 M796 M797 M798
TM02	M8901 M8902 M8903 M8904 M8905 M8906 M8909	TM11	B135 M105 M111 M112 M113 M115 M117 M121 M127 M149 M163 M203 M205 M216				
TM10	B135 B141 B152 B163 B684						

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
TR79F (Cont.)	M798 M906 M912 M930 M1103 M1307 M7821	TU10-E/F (Cont.)	M891 W726 G094 G093	TU30 (Cont.)	R302 R303 R405 R603 R613 S107 S151 S202 S203 S602 W051 W107 W501	TU60	H751-A M7760 M7761 H751-B
TS03	M8920	TU16	G056 H606 M8910 M8911			UDC11	G772 H738-A H740-D M105 M111 M113 M115 M121 M216 M304 M310 M401 M602 M617 M623 M681 M783 M784 M785 M851 M935
TU10-E/F	M640 M763 M765 M767 M7670 M7671 M7672 M7673 M769 H603 M890 M892 M895 M896 G932 G933 G9340 G9341 G050 G350 G062 G064 G717 H603 M050 M100 M514 M768	TU20	G084 G087 G287 R002 R107 R123 R151 R202 R203 R205 R302 R303 R401 R602 W501 G0870 R111 R113 R603	TU55	G850 G851 R002 R107 R111 R202 R303 W040 W513 W707 W990		M942 W406 W410 W741 W743 M3020 M7821
		TU30	B133 B135 B163 B165 G084 G287 R001 R002	TU56	G847 G848 G859 G851 G888 H716 M040 M113 M117 M302 G500	UDC-15	A233 A234 A235 A236

Option No.	Modules	Option No.	Modules	Option No.	Modules	Option No.	Modules
UDC-15 (Cont.)	A633 G729 M851 M935 W402 W403 W406	VP15-A	A607 M103 M104 M717	VT15	A228 M762 A317 A318 A704 M112 M169 M215 A3170 A3180 M302 M311 M401 A140 A238 A622 M206 M622 M7010	VT55	M7024 M8900 M8901 M8902 M8903 M8904 M8905 M8906
UDC8	G729 H740-D M100 M101 M102 M103 M111 M112 M113 M115 M169 M206 M307 M401 M510 M602 M623 M624 M633 M681 M851 M935 M942 W406 W410 W740 W742	VR12	G817 G818 G912 G917 W682 W982 W984	VR14	A225 G838 W682 W984	VT8E	H851 M8335 M8336 M8337
		VR20	A225 G839	VT20	M7007 M7008 M7009 H319 H748 M105 M792-YK M796 M7280 M7821 G110 G231 H214 M598 M7260 M7261 M7800	XM15	M966-YA G8270 M5921 M7172 M7173 M7174 M7175 M7176
		VT05	M7000 M7001 M7002 M7003 M7004			XV100/200	M966-YA G8270 M5921 M7172 M7173 M7174 M7175 M7176
		VT14	M849 M7441 M7443 M7451 M8300 M8310 M8320 M8330 M8349 M8349-YE M8655			XY10	B152 B163 R302 R613 S107 S203
VC8-E	M869 M885						

Option No.	Modules		
XY10 (Cont.)	S205 S602 W600		
XY11	M105 M7227 M7821		
XY311	M105 M7821 M7827		
XY8-EB	M842		

SECTION II
MODULE DESCRIPTIONS

MODULE	P/L	DESCRIPTION
702	10	MARGINAL CHECK SUP= 728 W SMALLER CAPS & REMOTE VARIAC AND POLARITY SWITCH 115V 60HZ
704-A	8	8/I PWR SUP= +5V 10A, -15V 5A, -30V 6A, +15V UNFILTERED 5A, 50/60HZ
708	8	PDP8 POWER SUPPLY & CONTROL 115V 60HZ
713	12	VR12 POWER SUPPLY: +/-6V, +/-80V, +400V, +30V
714	14	PDP14 POWER SUPPLY 5V 7.5A, REPLACED BY H752
739	1	MEM SUPPLY: 40 TO 60V 3A, 55 TO 75V 2A, 115V 60HZ.
834		1 STEP HG POWER CONT, 115V 20A, ECO 6/71 TO REMOVE MERCURY
834-B		1 STEP HG PWR CONT, 230V 20A, ECO 6/71 TO REMOVE MERCURY
854		7X19 834, ECO 6/71 TO REMOVE MERCURY
854-B		7X19 834-B, ECO 6/71 TO REMOVE MERCURY
861-B	PS	2 POLE 3 WIRE 16A 250V POWER CONTROL, 19 X 5.25 INCHES, 3.7KVA
861-C	PS	2 POLE 3 WIRE 24 AMP 115V POWER CONTROL, 19 X 5.25 INCHES, 2.75KVA
A005	IPG	8 CH FLYING CAP HG RELAY 12-BIT ADC, PROG GAIN, 1 HZ BW, BIPOLAR (ADU02), HEX
A007	IPG	16 CH RELAY MUX FOR A005, HEX
A123	CAT	MX SW, POS LOGIC, 4 SINGLE-POLE MOS FET SW, COMMON OUTPUT
A124	IPG	A123 WITH SEPARATE DIGITAL & ANALOG GNDS
A125	IPG	QUAD MULTIPLEX FET SW, OPEN CKT W NO POWER, CAN REPLACE A124, SINGLE 5
A130	12	MX FOR LINC, 4 CKTS
A131	12	MX FOR PDP-12, 8 CHANNELS, DRIVES AN A215
A133	10	8 CHANNEL FET SWITCH FOR KI10. 0 TO +10V RANGE
A140	15	SWITCH, 2/CARD, USES SWITCHABLE OP AMP, FOR VT15
A150	IPG	8 CHANNEL FLYING CAP MUX, QUAD, CONNECTOR ON HANDLE END FOR INPUT
A151	IPG	BLOCK SELECT FOR AM07-A
A202	12	2 ANALOG PREAMPS, FOR PDP8/L
A209	12	2 PREAMPS FOR 0 TO +2V, MODIFIED A202 FOR LINC, GAIN OF 5
A210	IPG	X1 AMP FOR GASCHROM-8, HIGH COMMON MODE VOLTAGE AND REJECTION
A211	IPG	X10 AMP, SIMILAR TO A210
A212	IPG	VARIABLE GAIN AMP, X1 TO X256, FOR GASCHROM-8, DOUBLE WIDTH & THICKNESS
A213	IPG	10 CPS LOW PASS ACTIVE FILTER, FOR GASCHROM-8
A214	12	DUAL X5 AMP FOR PDP-12
A215	12	ANALOG BUFFER FOR PDP-12, USED WITH A131
A216	IPG	BUTTERWORTH FILTER, 2 CPS, REPLACES A213 EXCEPT FOR POLARITY
A217	15	SUMMER-DRIVER FOR VT15, 5 FET INPUTS, ONE W OFFSET POT, X-1, 10K IN, BUF OUT
A219	IPG	SWITCHED GAIN AMPLIFIER, 8 GAIN POSITIONS, FOR AM07
A220	IPG	SELECTABLE GAIN NON-INVERTING AMP, GAINS OF 1,2,4, OR 8, 0 TO -10V IN, +/- 10V OUT, 1 US TO .01%
A222	IPG	LOW DRIFT A220
A223	IPG	3RD ORDER BESSEL FILTER FOR AM05, 3 MS RISE TIME TO .01%, -20 DB AT 2 KHZ
A224	12	SINGLE CH BI-POLAR DIFF AMP, GAIN=5, 100 MEG OHM INPUT, 74 DB CMR, +/-10V CUT
A224-YA	12	A224 WITH GAIN OF 2, +/- 5V IN
A224-YB	12	A224-YA WITH 2X ATTEN AT INPUT; +/-10V IN, 20K INPUT Z, GAIN OF 1
A224-YC	12	A224 WITH GAIN OF 10, +/- 1V IN
A225	12	DEFLECTION AMP FOR 4 AMP YOKE, VR14
A226	12	SINGLE CH DIFF AMP, GAIN=10, UNI-POLAR, +2 INPUT, +/-10V OUT, JUMPER CHANGE FOR NEG INPUTS
A226-YA	12	A226 EXCEPT GAIN = 4, 0 TO +5 INPUT
A226-YB	12	A226 EXCEPT GAIN = 2, 0 TO +10 INPUT, 20K INPUT Z
A226-YC	12	A226 WITH GAIN OF 20, 0 TO +1V IN
A228	15	A217 WITH ONE INVERTING INPUT
A231	8/E	64 CH MUX CONTROL FOR A232 & A841
A232	8/E	8 PREAMPS & 8 CH MUX EXPANSION, A131 & A215 CKTS, AM8-EB
A233	IPG	4 CH PADDLE BOARD FOR A633, A634, 0 TO +10V, QUAD X 5
A234	IPG	A233 EXCEPT +1 TO +5V
A235	IPG	A233 EXCEPT 4 TO 20 MA
A236	IPG	A233 EXCEPT 10 TO 50 MA
A238	15	DUAL IMPROVED A228
A241	LDP	4 PREAMPLIFIERS, MANUALLY SWITCHED 0 TO +2V, +/-5V, 0 TO +10V IN, +/-5V OUT, LOW TC, DOUBLE 8.5
A242	LDP	A241 W +/-1V IN, +/-5V OUT ONLY
A311	15	BASIC VECTOR GENERATOR FOR VT15, REPLACED BY A318
A312	DIS	ANALOG FUNCTION GENERATOR FOR KV8/I
A314	DIS	COMPARATOR, USED IN VT02 TERMINAL (WITH KV8/I)
A317	15	ARBITRARY VECTOR FOR VT15, DOUBLE 8.5 (WILL BE REPLACED BY A3170)

MODULE	P/L	DESCRIPTION
A3170	15	ARBITRARY VECTOR FOR VT15, REPLACES A317, DOUBLE 8.5
A318	15	BASIC VECTOR GENERATOR FOR VT15, IMPROVED A311, DOUBLE 5
A3180	15	ARBITRARY VECTOR GENERATOR FOR VT15, REPLACES A318 IN ARBITRARY SYSTEMS, DOUBLE 8.5
A320	LDP	VECTOR GENERATOR & DRIVER FOR VT40, HEX 8.5
A401	12	SAMPLE & HOLD, USED ON LINC-8, SIMILAR TO A705
A404	CAT	SAMPLE & HOLD, SIM TO A400. POS & NEG LOGIC CONTROL, 6 USEC ACQUISITION
A405	11	SAMPLE & HOLD, POS LOGIC ONLY, 2 US ACQUISITION, REPLACES A404 IN PDP12 & AD01
A406	LDP	SAMPLE & HOLD (15 BIT ACCURACY) SINGLE 8.5
A407	LDP	A406 8 CH MUX, SINGLE 8.5
A408	LDP	8 CH SWITCHED GAIN MUX (1, 4, 16, 64), SINGLE 8.5
A440	12	4 CHANNEL SAMPLE & HOLD (SIMILAR TO A405)
A460	CAT	SAMPLE & HOLD WITH NO INPUT BUFFER, 20-A460, DOUBLE X 5
A461	CAT	A460 WITH AN INPUT BUFFER, 20-A461, DOUBLE X 5
A607	IPG	CHEAP 10 BIT DAC FOR DISPLAY
A612	DIS	10 BIT DAC WITH FET GATE DRIVERS, KV8/I
A614	IPG	12 BIT DAC WITH BUF REG, +/-10V, 8.5, DOUBLE
A615	12	9 BIT DAC FOR PDP-12, WITH DUPLICATE INPUTS TO 2ND & 3RD LSB'S
A622	15	10-BIT SINGLE BUFFERED DAC, 5 USEC SETTLING TIME, VT15
A625	LDP	2 12-BIT DACS, +/-5V
A633	IPG	4 D/A'S, 10 BITS, UNIPOLAR, USED WITH A233,4,5,6, 0 TO -10V, QUAD X 8.5, FOR UDC
A6330	IPG	4 CHANNEL 10-BIT DAC, 0 TO +10V, 4 TO 20 MA, HEX, ICM DA=0A
A634	IPG	2 D/A'S, 12 BITS, UNIPOLAR, USED W A233, 4, 5, 6, 0 TO -10V, QUAD 8.5 FOR UDC11
A704	CAT	-10 REF SUPPLY, LIKE 1704, 0.1 MV REG, 0.1 MV P-P RIPPLE, -90 TO +40 MA OUT
A705		(OBSOLETE), SAMPLE & HOLD
A706	12	POWER SUPPLY FOR A202, USED ON LINC-8
A708	IPG	VOLTAGE REG, AD01-A, +15V & -20V IN, +5V @ 1.1A, -15V @ .2A OUT
A712	IPG	VOLTAGE REG FOR KV8/I, +/- 12V @ 100 MA FROM +/- 15V
A804	LDP	12 BIT A/D, +5 TO -5V
A812	11	10 BIT A/D, 0 TO +10V INPUT, 10 USEC CONV TIME
A841	B/E	10 BIT A/D WITH S&H, A405 + A811 CKTS, AD8-EA
A862	CAT	12 BIT A/D BIPOLAR, +/-10V IN, 48 USEC, 20-A862
A865	LDP	REPACKAGED A864 DOUBLE 8.5, 2 THICK
A872	IPG	12 BIT A/D, BIPOLAR, +/-10V IN 18 USEC, PHOENIX DATA, LIKE A862 EXC NO SERIAL OUTPUT, 30-10098
A877	IPG	13 BIT A/D, BIPOLAR, +/-10V IN, 36 USEC, PHOENIX, DOUBLE X 8.5
A903	IPG	8 CH, 0 TO 10V WITH FINGERS ON HANDLE END FOR H807, PLUGS INTO A150, DOUBLE X 6"
A904	IPG	A903 EXCEPT 0 TO 100V
A905	IPG	A903 EXCEPT 0 TO 50 MA
B104	CAT	4 INVERTERS, 3 LOADS
B105	CAT	5 INVERTERS, 5 LOADS
B113	CAT	4 2-INPUT NEG NAND GATES, 3 LOADS
B115	CAT	3 3-INPUT NEG NAND GATES, 3 LOADS
B117	CAT	2 6-INPUT NEG NAND GATES
B124	CAT	3 SETS OF 3 INVERTERS IN PARALLEL, 3 LOADS
B129	15	(OBS), PDP7X INVERTER LOGIC
B130	CAT	4 3-INPUT ANDS ORED, BOTH OUTPUTS, PARITY FOR 3 BITS
B131	15	PDP9 ADDER
B133	10	2 MA EQUIV TO B113
B134	10	4 2-INPUT POS AND GATES, 3 LOADS, 2MA EQUIV TO B124
B135	10	2 MA EQUIV TO B115
B136	10	3 MA B134
B137	10	2 MA EQUIV TO B117
B138	10	PDP10 ADDER (B131 WITH ADDED DIODE TO KILL THE CARRY QUICKLY)
B141	10	7 2-INPUT GATES, 2 MA INPUT EQUIV TO R141
B152	10	BINARY-TO-OCTAL DECODER, R151 WITH HIGHER FAN-IN & NO CLAMP LOADS & NO EMITTER GATING
B155	CAT	HALF BIN-TO-OCTAL DECODER, 2 BITS, 2 ENABLE INPUTS
B156	10	2 MA EQUIV TO B155
B163	10	6 2-INPUT GATES, 1 PAIRED COMMON INPUT, 2 MA EQUIV OF R123
B165	10	2 MA DIODE EQUIV OF B105
B167	10	8 2-INPUT NANDS ORED TO 4 OUTPUTS WITH 2 ENABLE INPUTS, 2X4
B168	10	4 3-INPUT NANDS ORED TO 3 OUTPUTS WITH 3 ENABLE INPUTS, 3X3

MODULE	P/L	DESCRIPTION
B169	15	DIODE GATE EQUIV TO B129, PDP9, 8 2-INPUT NANDS ORED TO 2 OUTPUTS, 4 ENABLE INPUTS, 4X2
B169-YA	10	B169 W NO LOAD RESISTORS (MF10)
B171	CAT	6 SETS OF 2-INPUT ANDS ORED, BOTH POLARITIES OUT, PDP7
B172	10	FASTER B171, 2 MA FAN-IN
B173	10	14 INPUT NEG NAND GATE W ONE INPUT PRECEDED BY A 10 IN POS NAND, ME10
B198	10	PROTECTION COMPARATOR, PDP10 MEM, 0 & -3V IN & OUT, COMPARES 2 8-BIT WORDS
B199	10	FM ADDRESS DECODER FOR B250 IC'S, DOUBLE
B204	CAT	4 FF'S
B211	10	FF, BUFFERED, NO DELAY
B212	10	DUAL RS FF, PDP10, BUS DRIVER OUT, DELAYED & NOT DELAYED RS INPUTS
B213	15	PDP9 FF, SINGLE INPUT JAM, NO DELAY
B214	10	4 FF'S, B204 MADE OUT OF 3 MA DIODE GATES
B250	10	FF MEMORY, PDP10, FAIRCHILD IC'S, 8X12 BITS/CARD, DOUBLE BOARD
B301	CAT	10 MC ONE SHOT
B310	10	4 DELAY LINES, DOUBLE SIZED
B311	10	TAPPED DELAY LINE, 200 NSEC, 25 NS STEPS, EMITTER FOLLOWER INPUT
B312	10	DELAY LINE, B311 CONTINUOUSLY VARIABLE, DIODE INPUT, PDP10
B360	CAT	SCREWDRIVER DELAY LINE + PULSE AMP, 200 - 250 NS MAX
B405	CAT	CRYSTAL CLOCK, 2 TO 10 MC
B410	10	VOLTAGE CONTROLLED CLOCK, 1-10 MC, 40 TO 100 NSEC NEG PULSES, POT ADJUST
B602	CAT	DUAL 10 MC PULSE AMP
B611	10	DUAL PULSE AMP, 25 NSEC, PDP10
B612	10	DUAL PULSE AMP, 60 NSEC, MF10
B681	CAT	4 POWER INVERTERS
B683	10	3 BUS DRIVERS, OR OUTPUT, 50 OHM LOAD, 0 -3V
B684	CAT	2 BUS DRIVERS, LIKE 6684
B685	10	3 DIODE GATE DRIVERS, 2 CKTS, 80 MA @ GND, 8 MA @ -3V, PDP10
G005	10	4 INPUT SENSE AMP (DOUBLE), PDP-6, 2 US
G007	8	PDP-8 SENSE AMP
G008	8	SLICE CONTROL FOR G007 & G009
G009	15	2 INPUT SENSE AMP FOR PDP-9, (NO PA), ALSO USED FOR G013 & G014
G010	15	SENSE AMP SELECTOR FOR PDP-9, 164, ALSO USED FOR G012
G013	15	(OBS), SENSE AMP FOR PDP-9L, 4K MEM, G009 BOARD
G014	15	2 INPUT G013, G009 BOARD
G020	8	SENSE AMP FOR 8/I, SINGLE, ON G021 CARD, IC LEVELS
G021	8	DUAL SENSE AMP FOR 8/I, IC LEVELS, ALSO USED FOR G020
G022	10	4 INPUT SENSE AMP FOR PDP-10, SINGLE, WITH CABLE, +6.2V, -6.2V
G023	10	MASTER SLICE CONTROL FOR G022
G024	10	MASTER SLICE CONTROL FOR MF10, +3.5 TO +6.5 V, SENSE AMPS ON G113
G050	PERIPH	9 TRACK, 45 IPS, DUAL GAP HEAD READ AMP
G056	PERIPH	TU16, 9 CH READ AMP HEX 8.5
G060	PERIPH	MAG TAPE COMPRESSOR, 9 TRACK
G062	PERIPH	MAG TAPE PEAK DETECTOR, 9 TRACK
G064	PERIPH	MAG TAPE SLICER, 9 TRACK
G083	PERIPH	DISK PRE-AMP
G084	8	MAG TAPE READ, RECTIFY, SLICE AMP, TU20, ALSO USED ON G086
G085	PERIPH	DISK AMP, (REPLACES 1/2 G083 + 1/2 W532) + (1/2 W533)
G085D	12	DISK AMP FOR DF32D, DS32-D
G086	10	(OBS), MAG TAPE READ AMP, RECTIFY, SLICE, PEAK PICKER
G087	10	MAG TAPE READ AMP, RECTIFY, SLICE, PEAK, TU30
G087D	10	MASTER SLICE CONTROL FOR G087
G088	PERIPH	DISK READ AMP WITH COMPRESSOR & PEAK DETECTOR, RS64
G092	PERIPH	TIMING AMP + LOGIC, RS03, DBL X 8.5
G093	PERIPH	TU10 PEAK DETECTOR (REPLACES G062)
G094	PERIPH	TU10 THRESHOLD DETECTOR & BUFFER (REPLACES G064)
G100	15	SENSE AMP & INHIBIT DRIVER, PDP15, 3 WIRE, 3D MEMORY
G102	XML	SENSE, INHIBIT, & REGISTER (4 BITS) FOR MM11 & ME10
G103	XML	MEMORY VOLTAGE LEVELS, MM11 & ME10
G104	8/E	SENSE, INHIBIT, & 12 BIT REGISTER FOR MM8-E, QUAD, 8.5
G106	XML	MR11-A ROM DRIVE & SENSE, QUAD, 8.5, USES G642

MODULE	P/L	DESCRIPTION
G109	XML	18-BIT 11/05,11/25,11/45 CONTROL & DATA LOOPS, HEX X 8.5 (SEE G231,G232)
G109-YA	15	G109 W M SELECT FF & DATA LOAD PULSE PINS, USED IN ME15
G110	XML	16 BIT G109 (900 NSEC)
G111	XML	12 BIT 8/E SENSE & INHIBIT, 8.5 X QUAD
G112	XML	20 BIT SENSE/INHIBIT, 16K SENSE, 8.5 HEX, MM11-U
G113	10	19 BIT MF10 DATA LOOPS, HEX 8.5 (SEE G231) (8K SENSE)
G114	XML	G112 W 8881 & 380 IN PLACE OF 8838
G180	PERIPH	LOW DENSITY (1100 BPI DOUBLE FREQ), R/W FOR RK04, DECPACK, DOUBLE X 8.5
G182	PERIPH	R/W HEAD AND DETECTION, RS03, DBL X 8.5
G201	15	PDP-7 INHIBIT DRIVER
G203	8	(OBS), PDP-5(A) MEMORY SELECTOR
G205	8	(OBS), PDP-8 INHIBIT DRIVER, REPLACED BY G208
G206	10	MEMORY SELECTOR, PDP-6, 2 US, DOUBLE, USED FOR G212
G207	10	INHIBIT DRIVER, 4 QUADRANT, PDP-6, 2 US, DOUBLE
G208	8	PDP-8 INHIBIT DRIVER (REPLACES G205) FOR + POWER SUPPLY, USED FOR G218
G209	8	PDP-8 MEMORY SELECTOR (HOT SIDE), (REPLACES G203) FOR + POWER SUPPLY, USED FOR G210, G219
G210	15	PDP9 CONTROL MEMORY DRIVER, DESIGNED TO DRIVE G920, USES G209 BOARD
G212	10	MEMORY COMMON DRIVER, G206 + MISC R&D, G206 BOARD, FOR PDP6 2USEC MEM
G217	10	WORD DRIVER, MA10, USES G219 FOR DIGIT DRIVER
G218	15	INHIBIT DRIVER (A G208 FOR NEG SUPPLY), FOR PDP9
G219	15	MEMORY SELECTOR (A G209 FOR NEG SUPPLY), FOR PDP9
G221	8	MEMORY DRIVER, IC INPUTS, 4 CKTS, SINGLE, FOR 8/I, 8/L
G222	15	MEMORY SELECTOR, IC INPUTS, 4 CKTS, 3 WIRE, 3D, PDP15
G223	15	READ/WRITE DRIVER, IC INPUTS, 2 CKTS, SINGLE, 3 WIRE, 3D, PDP15
G225	XML	CURRENT SOURCE, SINGLE X 8-1/2, ME10, MM11
G225-YA	11	G225 MODIFIED FOR RUGGED STACK
G226	XML	XY SELECTION SWITCH, SINGLE X 8-1/2, ME10,MM11
G227	8	XY SELECTION, CURRENT SOURCE & REGULATOR FOR MM8-E, QUAD, 8.5
G228	8	INHIBIT DRIVER, IC INPUTS, 8/I, 8/L
G230	10	G225 WITH DELAY LINE ON INPUT, 0 TO 40 NSEC
G231	XML	XY SELECTION, CURRENT SOURCE, ADDRESS LATCH, 8K DECODE, HEX X 8.5, SEE G109, G110
G232	XML	4K G231
G235	XML	16K XY DRIVE, CURRENT SOURCE, DECODE, HEX 8.5, MM11-U, MI10, H217
G284	PERIPH	DISK WRITER, DISK
G285	PERIPH	SERIES SWITCH, DISK
G286	PERIPH	CENTER TAP SELECTOR, DISK,
G287	8	MAG TAPE WRITER, 2 CHANNELS, 100 MA HEAD CUR, NO CENTER TAP, 0 TO -15V
G290	PERIPH	DISK WRITER, INCLUDES 2-1/2 MHZ FF
G291	PERIPH	DISK WRITER W +20,+5,-15 POWER FAIL, RS64
G294	8	DISK WRITER, + LOGIC EQUIV TO G284
G295	8	SERIES SWITCH, + LOGIC EQUIV TO G285
G296	8	CENTER TAP SELECTOR, + LOGIC EQUIV TO G286
G350	PERIPH	9 TRACK, DUAL HEAD, 45 IPS, MAG TAPE WRITE DRIVER
G376	MTST	(OBS), PROTECTION CONTRO FOR 2500 + 2600
G380	PERIPH	DUAL 5 AMP SOLENOID DRIVER, 5% DUTY FACTOR, FOR LA30
G381	PERIPH	LINE FEED SOLENOID DRIVER FOR LA30, 6 AMPS
G401	11/45	4K X 16-BIT MOS RAM, 8.5 X HEX, 4 LAYER
G401-YA	11/45	18 BIT G401
G500	FS	TU55/56 SKEW TESTER, SINGLE X 8.5
G589	10	DIFFERENTIAL INTEGRATOR/AMP, RP10 CONTROLLER, RP01-MEMOREX 630-1
G590	10	DIFFERENTIAL FILTERED INTEGRATOR, RP10, RP02, MEMOREX 660
G603	8	MEMORY SELECTOR MATRIX, 56 CONTACTS, 28 EACH SIDE, BIFURCATED
G604	10	MEMORY SELECTION MATRIX, PDP-6
G610	8	"A" DIODE BOARD FOR PDP-8 STACK 3005256
G611	8	"B" DIODE BOARD FOR PDP-8 STACK 3005256
G614	15	Y DIODE MATRIX, 3 WIRE, 3D, 4K, 9/I
G616	XML	4K, 12 BIT, 20 MIL BOARD WITH DIODES, QUAD, 9 DEEP
G617	XML	4K, 9 BIT, 20 MIL COVER BOARD FOR G616
G619	8/E	4K, 12 BIT, 20 MIL CORE MEMORY BOARD WITH DIODES, QUAD, 8.5 DEEP, FOR 8/E
G621	8	(OBS), RESISTOR BOARD FOR 8 MEM, 4 INHIBIT, 1 READ/WRITE & CAP & DIODE

MODULE	P/L	DESCRIPTION
G622	15	RESISTOR BOARD FOR MC70B, FIRST PDP-9 MEMORIES
G624	8	RESISTOR BOARD FOR 8/I MEMORY, SIMILAR TO G621
G626	10	RESISTOR BOARD, PDP-10, 2-1/2 D
G642	XML	BRAID BOARD, 256 WIRES, 64 CORES, 1 DIODE PER WIRE (MR11), PLUGS INTO G106
G643	8	BRAID BOARD, 128 WIRES, 24 CORES, 1 DIODE PER WIRE (MR8-E), PLUGS INTO M880
G645	XML	8K X 19 BIT STACK BOARD, QUAD X 8.5, FOR 11/05, 11/25, 11/45, 10
G646	XML	8K X 12 BIT STACK BOARD, QUAD X 8.5, FOR 8/E
G647	XML	16KX20 BIT STACK BOARD, PDP11, PDP10, HEX 8.5
G700	10	CABLE TERMINATOR, W028 BOARD
G703	10	100 OHM TERMINATOR, G700 PATTERN, DOUBLE BOARD WITH CUT OUT TO FIT OVER H003 OR H004
G704	10	2 MA LEVEL TERMINATOR, G796 BOARD & COMPONENTS
G705	10	DEC TAPE JUMPER MODULE
G706	10	DEC TAPE ATTENUATOR
G711	PERIPH	TERMINATOR FOR RS08, 100 OHMS
G715	10	TERMINATOR, EQUIV 100 OHMS TO +4, USES +10 & GND, G700 CONNECTIONS
G716	12	RESISTOR BOARD, R002 LAYOUT, USED IN AX08
G717	8	5 100 OHMS TO GND, PINS K2, M2, P2, S2, T2, SAME GNDS AS W022
G718	12	TIMING JUMPER FOR PDP12, WHEN PLUGGED IN UPSIDE DOWN, EACH DELAY LINE TAP IS SHIFTED
G719	PERIPH	RF08 TERMINATOR BOARD-A, (9 470 OHMS TO +10, 6 1K TO +10)
G723	PERIPH	9 CLAMPED LOADS FOR RS09, W021 CONNECTIONS, 15 MA CLAMPED LOADS, 30 MA ON V
G724	8	JUMPER MODULE FOR DC08A CHECKOUT, ADJACENT PINS JUMPERED EXCEPT A1-B1, A2-B2
G726	10	ME10 BUS CONTROL, A JUMPER BOARD
G726-YA	10	NO CAPACITOR ON REQUEST LINE (MF10)
G727	11	SHORTS K2=L2, M2=N2, P2=R2, S2=T2, USED IN DD11 WHEN NO PERIPH CONTROL IS PRESENT
G7270	11/45	LONGER G727
G728	15	BB15 JUMPER CARD (24 JUMPERS)
G729	IPG	JUMPER CARD, 16 IN & 2 OUT (2 OCTAL DIGITS) FOR AM07
G730	IPG	JUMPER CARD, DPDT, TO REPLACE AMPLIFIER IN AM07
G735	11	VOLTAGE DIVIDER TEST CARD FOR AD01
G736	11	JUMPER MODULE, 1 IC SOCKET, 16 PINS, SINGLE 5
G7360	11	G736 W 2 SOCKETS, SINGLE 8.5
G737	10	9 DIVIDERS, 150 OHMS TO +3V, W028 CONNECTIONS
G740	11	DISK SELECTION CARD, 8 IN & 10 OUT WITH LOADS & JUMPERS
G741	11	18 5 MA NEG CLAMP LOADS FOR TU10-E,-F
G741-YA	PERIPH	16 5 MA NEG CLAMP LOADS, 2 20 MA LOADS, G741 ETCH, TU10
G742	PERIPH	JUMPER CARD, PINS OF NON-INVERTING M500 & M531, TU56 WITH POS LOGIC CONTROLS
G747	10	G700 WITH 220 OHM TO GND & 390 OHM TO -15V FOR TM10 BUS
G767	IPG	POWER INPUT FOR AA11, +/-15V, REMOTE SENSE
G769	8	KV8/I TO VT02, G778 ETCH
G772	11	PDP11 POWER CONNECTOR
G775	15	36 WIRES TO INDICATOR Q'S, +6.5V FROM LAMPS, RF09
G778	DIS	CABLE CONNECTOR FOR KV8/I, SEE G769
G783	12	9 TWISTED PAIR AND SHIELD, 1 PR GROUND RETURN
G785	8	POWER CONNECTOR, 8/L, POWER OK
G792	8	PDP-8/I POWER CONNECTOR, DOUBLE, DOUBLE SIDED
G793	8	PDP-8/I SWITCH CONNECTOR, 8/I TO CONSOLE
G795	15	CLAMPED LEVEL CABLE CONNECTOR, W021 PINS, DIODES TO -.7 & -3V, PDP-9, EXTENDED MEMORY
G796	10	CLAMPED LEVEL CABLE CONNECTOR, W034 WITH CLAMPS @ GND & -3V WITH 2 MA CLAMPED LOADS, G704 ETCH
G800	10	CONTROL FOR 739 POWER SUPPLY
G8000	11	+8.5V RECTIFIER
G8002	PERIPH	LOW VOLTAGE DETECTOR, RS64
G8004	PERIPH	+5V DETECTOR FOR LA30, SINGLE 5
G8016	8/A	REGULATOR FOR H763, QUAD
G8018	8/A	POWER SUPPLY REGULATOR FOR 8A400, 8A500
G802	8	REGULATOR TRANSISTORS FOR PDP-8 EXTENDED MEMORY, DOUBLE HEIGHT, DOUBLE THICK
G803	TP	(OBS), RECTIFYING SLICER, 8/S, RENAMED W533
G804	8	CONTROL FOR G805, PS PRE-REG PLUS +10 & -15V DETECTOR, (G809)
G805	8	REGULATOR FOR NEG 8 MEMORY
G806	8	(OBS), LIKE G804 BUT TURNS OFF REGULATOR INSTEAD OF DRIVING EXT RELAY, (DRIVES G805)
G808	8	POWER SUPPLY CONTROL FOR 708 PS, SAME AS G800

MODULE	P/L	DESCRIPTION
G809	8	-15V SENSE & RELAY DRIVER, PDP-8 PS
G810	10	6V REGULATOR CONTROL, DRIVES A G805
G813	8	REGULATOR CONTROL FOR 704, DOUBLE MODULE SHAPE, DOESN'T PLUG IN
G816	10	MODIFIED G806 FOR DRIVING 70V POWER SUP REGULATOR OUTPUTS
G817	12	CARD 1 FOR 713
G818	12	CARD 2 FOR 713
G820	12	+5V 300 MA SUPPLY (FROM +10V) FOR LINC-8 CLIN CHEM
G821	15	+5V REG CONT AND OUTPUT CARD FOR PDP15, (SEE G829)
G822	15	-6V REGULATOR (FROM -10V) FOR SENSE AMPS, PDP15
G823	15	-24V MEM REG CONT CARD, DRIVES G825, PDP15
G824	12	+5V REG CONTROL, PDP-12
G825	15	-24V PASS ELEMENT, FROM G823
G826	8	REG CONTR FOR 8/I, DRIVES G805 & DETECTS PRESENCE OF OTHER VOLTAGES, DOUBLE HEIGHT
G827	15	LOW VOLT DETECTOR, PDP-15, + K303 RC'S, DETECTS +9V, USES +5V
G8270	15	G827 W ADDITIONAL GATING FOR XV100
G828	10	REGULATOR CONTROL, ME10, USES G805
G829	15	5V CONNECTOR CARD FOR 15 PERIPHERALS WITH OVERVOLTAGE SCR & FUSE, CAN REPLACE G821
G830	10	5V, 10 AMP REGULATOR FROM 8V, KI10
G831	10	-10V REF, +5V OUT, 0 TO +10V 6 BIT DAC, MARGINAL CHECK CONTRCL, KI10
G836	12	+ 8 -20V REGULATOR FOR VR14, QUAD
G838	12	FAULT PROTECTION FOR VR14, PROVIDES +5V FOR INTENSITY BOARD W682, IN VR14
G839	12	COLOR GAIN COMPENSATOR, INCLUDES +5V FOR INTENSITY BOARD W682 IN VR20
G840	LDP	LIGHT PEN AMP FOR VR14, SINGLE 5
G847	PERIPH	DUAL VOLTAGE CONTROL FOR G848, TU56
G848	PERIPH	TU56 MOTOR DRIVE
G850	PERIPH	SCR MOTOR DRIVE, FOR TU55
G851	PERIPH	DEC TAPE RELAY MODULE, DOUBLE SIZE
G853		DEC TAPE MISC, SINGLE UNIT SELCTION & TIMING TRACK SENSING
G854	10	TELEGRAPH LINE CIRCUIT, SINGLE, DOUBLE THICK
G855	8	DUAL TELEGRAPH LEVEL CONV, REPLACES G852 IN MODIFIED SYSTEM
G856	8	G855 WITH + LOGIC INPUT LEVELS, DC08, 50-80V, DOUBLE THICK
G858	15	TELETYPE CONNECTOR, PDP-15, 8 PIN AMP CONNECTOR
G859	PERIPH	CLOCK & REGULATOR FOR TU56
G860	8	TELEGRAPH LEVEL CONV, G856 WITH CONTACT SUP FOR 135VDC, DC08-C
G861	8	SOLID STATE XMTR, 2 CKTS, EACH SPDT FROM +80 TO -80V, 400 MA MAX, DC08-CS, DOUBLE
G862	8	SOLID STATE RCVR, 2 CKTS, 8.5 TO 75 MA THRESHOLD ADJ, HIGH CCM MODE REJ
G863	8	G856 WITH DIFFERENT CONTACT PROTECTION FOR GPO, IN DC08-L
G879	15	TRANSPORT DETECTOR, TC08/9/15
G882	8	MANCHESTER READER-WRITER
G888	15	MANCHESTER READER/WRITER
G890	COMM	POWER FAIL & SELECT BYPASS, IBM 360, DX11-B, SINGLE X 5
G900	PERIPH	TAPE PHOTOCCELL AMPLIFIER
G903	PERIPH	CLOCK ACCELERATOR FOR PAPER TAPE READER
G904	8	PAPER TAPE PHOTOCCELL AMP, USES SDA, 9 CHANNEL, DOUBLE BOARD
G906	12	LINC-8 CAP & POWER UP
G908	8	+ OUTPUT VERSION OF G904, LAMP FOR -15V INSTEAD OF +10, USES HOFFMAN PHOTOCCELL
G912	12	DEFLECTION AMP, -12 AMPS INTO 30 UH PUSH-PULL YOKE, 15 US FULL DEFL TIME, VR12
G913	15	CLOCK CONTROL, (G903 + 1/2 R302 + 1/3 R603)
G915	8	POWER ENABLE, MOTOR START, PP67-C,D
G916	12	POWER DETECTOR & SWITCH FILTER, PDP-12
G917	12	GAIN & SET CONTROL FOR VR12
G918	PERIPH	PHOTOCCELL AMP FOR PT04,5, REPLACEMENT FOR G908, FOR PHOTOTRANSISTORS
G919	LDP	LIGHT PEN OUTPUT AMPLIFIER
G920	15	CONTROL MEMORY QUAD MODULE, FOR PDP9
G921	8	PDP-8/L CONSOLE, (PLUGS IN)
G923-YA	14	SENSE BOARD, MTI ONLY ROM
G930	8	NON-TORE TAPE ALLOTMENT FOR PR60-C,D
G932	PERIPH	CAPSTAN SERVO PREAMP (DRIVES H603)
G933	PERIPH	REEL MOTOR AMP FOR TU10, +/-12V, +/-6A
G934	PERIPH	BRAKE ACTUATOR FOR TU10, 6V, INITIALLY 0.8A, FINALLY 0.1A

MODULE	P/L	DESCRIPTION
G9340	PERIPH	REPLACEMENT FOR LOGIC PORTION OF G934, SINGLE
G9341	PERIPH	REPLACEMENT FOR OUTPUT PORTION OF G934, HIGHER CURRENT, DOUBLE
G936	PERIPH	CLOCK WITH ACCELERATOR FOR LA30
G938	PERIPH	DECPACK HEAD POSITION SERVO, DOUBLE X 8.5
H003		NYLON BLOCK FOR MOUNTING H350, H351, OR H352 CONNECTORS, 2/H800'S
H004		NYLON BLOCK FOR MOUNTING H350-2 CONNECTORS, 4/2-H800'S
H1500	IPG	120 VAC INPUT TO 5V LOGIC, 1X1.5X3 SOLID STATE CONVERTER, TELEDYNE RELAYS
H1550	IPG	10-55 VDC ISOLATED INPUT TO 5V LOGIC, 1X1.5X3 SOLID STATE CONVERTER, TELEDYNE RELAYS
H1600	IPG	5V TO 120 VAC 2A, 1.1,5X3 SOLID STATE CONVERTER, TELEDYNE RELAYS
H1601	IPG	5V TO 120 VAC 2A, 1,5X3,5X3" SOLID STATE CONVERTER
H1650	IPG	5V TO DC ISOLATED 55V 2A OUTPUT, 1X1.5X3 SOLID STATE CONVERTER, TELEDYNE RELAYS
H207	11	4K, 16 BIT, 22 MIL STACK ON G616 & G617, PS-3009957
H207-E	11	H207 CONFORMALLY COATED, 1.5 USEC, PS-3009957
H210	10	4K, 19 BIT, 22 MIL STACK ON G616 & G617, PS-3009957
H211	8/E	4K 12 BIT ON G646, 3 WIRE 3D, 18 MIL CORES, MM8-EH
H212	8/E	8K 12 BIT H211, MM8-EJ, PS-3010654
H213	11	4K 16 BIT STACK ON G645, 3 WIRE 3D, 18 MIL CORES, PS-3010654
H214	11	8K 16 BIT H213, PS 3010654, 900 NSEC, USED IN MM11-L
H215	11	8K 18 BIT H213, PS-3010654, USED IN MM11-LP, ME15
H216	10	8K 19 BIT H213, PS-3010654, USED IN MF10
H217-C	XML	16K 18 BIT STACK ON G647, PS H217-0
H217-D	XML	16K 16 BIT STACK ON G647, PS H217-0
H220	8/E	4K, 12 BIT, 22 MIL STACK ON G619, PS 3009834
H304	12	CLINICAL CHEM TERM BOX, (FOR AUTO ANALYZER, TECHNICON)
H314	12	INTEGRATED CIRCUIT SAMPLER, 180 IC'S
H315	11	MODEM TEST CONNECTOR
H319	TPL	20 MA CURRENT LOOP RECEIVER (OPTICAL ISOLATER RECEIVER, PASS-THROUGH TRANSMITTER)
H325	11	MODEM TEST CONNECTOR W PROVISION FOR "NEW SYNC"
H603	PERIPH	CAPSTAN SERVO POWER AMP FOR TU10 (PREAMP IS G932)
H604	PERIPH	DECPACK HEAD POSITION SERVO POWER AMP, (PREAMP IS G938)
H605	PERIPH	MOTOR DRIVE AMP, LA30
H606	PERIPH	TU16 POWER BOARD (CAPSTAN PREAMP, POWER AMP, REEL MOTOR AMPS, BRAKE ACTUATORS)
H704	CAT	REG. DUAL POWER SUPPLY, 15V @ 400 MA FLOATING, MOUNTS ON 1943 OR H911, 115V
H704-C	IPG	H704 MOUNTED ON 19 X 5 1/4 PANEL, 115V
H704-D	IPG	H704, 230V
H704-H	IPG	H704-C, 230V
H707	CAT	LIKE H704, BUT 1.5 AMPS FROM EACH OF THE TWO 15 V SUPPLIES, DELTRON (OVERHEATS OVER 1 AMP)
H716	IPG	+5V 4A, +/-3%, -15V 1-1/2A, WANLASS, 2 BLOCK SPACE (4"X5-1/4X12), 50/60HZ, 120/240V (110V RECEPTACLE)
H719	TPL	H716 + 160 MF, 20V ON 19" X10-1/2 PANEL
H720-A	11	PDP11/20 SUPPLY, +5V @ 16A, -15V@10A, +8V RMS@1.5A, -25V@1A, 115VAC, AC LO, DC LO, LTC
H720-E	11	H720-A WITH POWER CONTROL & REMOTE/LOCAL POWER INTERLOCK, +5V 22A
H720-F	11	230V H720-E
H721	15	+5V +/-2% @ 20A, -15.5V+/-10% @ 3-1/2A, +10.5V+/-10% @ 2-1/2A (PDP15 PERIPH) AUTO TAPS,
H723	10	8V @ 40 AMPS FOR KD10, 4-10 AMP OUTPUTS WITH CB'S, 50/60 HZ RESONANT TRANSFORMER
H724	8/E	POWER SUPPLY FOR PDP8/E, +5V, -15V
H724-A	8/E	230V H724
H725	10	15V @ 20A SUPPLY FOR KI10, 50/60 HZ RESONANT TRANSFORMER
H726-B	14	H726-A MOUNTED IN PDP11 SYSTEM UNIT WITH SWITCH, FUSE, & OUTLET, SEE H014
H726-E		12-09933-03 POWER FAIL H726-B
H726-F	11	H726-E MODIFIED FOR 5.9V @ 5 AMPS FOR DT11
H727-A	IPG	DUAL SUPPLY, 15V 400 MA, 20V 400 MA, MOUNTS ON 1943 OR H900, 115 VAC
H728-C	IPG	DUAL SUPPLY, 15V @2A, 20V @ 1.2A, ON 19X5.25" PANEL, 115V, FOR AD15, DELTRON
H732	10	MARGINAL CHECK SUPPLY, KI10, MANUAL, 19" DUAL FREQ VERSION OF 702
H734-A	11	19 X 10.5 INCH, +15V 12A, -15V 12A, AC LO, DC LO, 115V, REMOTE/LOCAL DC PWR INTERLOCK, RK02,03
H735	PERIPH	LA30 SUPPLY, +15V 5A, +10V 4A, +5V 1A, -15V 5A, DUAL FREQ RESONANT SUPPLY 16-10416
H737	PERIPH	115/230V, +20V 1.5A (5409484), +5V 8A (5409503), -15V 2A (5409484)
H738-A	IPG	714 & H728 ON 5 X 19 PANEL, 115V, +5V 5A, +18V 2A, -18V 1.2A
H740-D	PS	+5V20A, -15V5A, +15V1A, ACLO, DCLO, LINE FREQ SIG, 115/230V, 47-63HZ (5409728) 3.5X19 PANEL
H742-A	11	PS CHASSIS FOR 11/45, 5 30VAC 6A EACH, +15V@2A, +8V@1A, ACLO, DCLO, LINE FREQ SIG, 115V
H742-B	11	230V H742-A

MODULE	P/L	DESCRIPTION
H744	11	+5V 25A REG FOR H742, H765
H745	11	-15V 10A REG FOR H742, H765
H746	11	+23,2V 1.6A, +19.7V 3.3A, -5V 1.6A FOR H742, H765
H748	PERIPH	VT20-BC, -BD SUPPLY: +5V 4A, +15V 750 MA, -15V 750MA, VT20, 95-130VAC, 190-260VAC
H750	11/35	11/35 SUPPLY: 5409728-YB, H744, 2 XFMRs, POWER INPUT FROM BC05T (115V 12A) OR BC05U (230V 7A)
H751-A	PERIPH	CASSETTE P. S. (TU60) +5V 4A, +15V 2A, -15V 2A, 95-130VAC, USES 5410131
H751-B	PERIPH	190-260VAC H751-A
H753	CLP	RT02 POWER SUPPLY: +250V 30MA, +12V 300MA, -12V 300MA, +5V3A, 95-135 OR 190-270VAC
H754	11	+20V 7.5A -5V REG FOR H742, H765
H755	LDP	LPS SUPPLY; +5V 13A, +/-15V +/-0.03% 2A, LINEAR REGULATORS, 100, 115, 200, 230V +/-10%, 47-63 HZ
H758-A	COM	H751-A ON 5.25 X 19" PANEL, 115V
H758-B	COM	H751-B ON 5.25 X 19" PANEL, 230V
H762	14	90-135V/180-270V, 50/60HZ, +15V 1A, +5V 20A, -15V 5A, ACLO, DCLO, LINE FREQ
H763-A	8	PDP8-A POWER SUPPLY, 115V
H764	PERIPH	TWO 5409728 (H740) REGULATORS; EACH +5V 17A, -15V 5A, +15V 1A, ACLO, DCLO (RP04)
H765-A	PS	PS FOR BA11-K, +15V 2A, 8V 1A, ACLO, DCLO, LINE FREQ SIGNAL, 2 H744, H745, H754, 5410993, 115V
H765-B	PS	PS FOR BA11-K, +15V 2A, 8V 1A, ACLO, DCLO, LINE FREQ SIGNAL, 2 H744, H745, H754, 5410993, 230V
H770	KL10	+15V 3% 10A REGULATOR FOR H742
H772-A	IPG	+5V 25A, +21V UNREG 5.5A, -21V UNREG 3.5A, LINE FREQ CLOCK, ACLO, DCLO, 115/230V, 60HZ, RESONANT
H772-B	IPG	50 HZ H772-A
H807	CAT	CONNECTOR BLOCK, 36 PIN SINGLE MODULE DOUBLE-SIDED CONNECTOR, .025 SQUARE, 12-09123
H815	MOD	GARDNER DENVER GUN ALONE
H851	8/E	EDGE CONNECTOR, 2 H807'S JOINED BY PC BOARD FOR ADJACENT MODULE CONNECTIONS AT HANDLE END
H8511	8/E	H807 W ALL CORRESPONDING SIDE 1 & SIDE 2 PINS CONNECTED TOGETHER
H854	8/E	40 PIN CONNECTOR, MALE, USED ON 8/E MODULES, 12-09941
H856	8/E	MATES TO H854 WITH POKE HOME CONTACTS (BERG) (1210090 HOUSING, 1210089 PINS)
H861	COM	DM11-8B TEST CONNECTOR (4 H854 ON CARD WITH INTERCONNECTIONS)
H8611	COM	H856 W INTERCONNECTIONS FOR LOOP BACK TEST ON DH11-AD, DH11-AE
H8612	COM	H856 FOR LOOP BACK TEST ON M7839
H900	CAT	FLIP-CHIP MNTG PANEL & POWER SUPPLY, (USES H701)
H911-C	CAT	H911-R W SLOTTED BLOCKS (H863)
H912	14	BLANK I/O MNTG PANEL, SPACE FOR 16 H1000 SERIES I/O UNITS
H9192	8/A	PDP8-A BUS CONNECTOR BLOCK ASSEMBLY (10 QUAD SLOTS)
H9194	8/A	PDP8-A BUS CONNECTOR BLOCK ASSEMBLY (7 QUAD + 5 QUINT SLOTS)
K003	CAT	GATE EXPANDER, 3 3-INPUT DIODE GROUPS, 3 1-MA LOADS
K026	CAT	GATE EXPANDER, 3 GROUPS OF 2 INPUT AND-OR GATES
K113	CAT	2-INPUT NAND GATES, 3 INDEP CKTS WITH EXPANSION CAPABILITY
K138	CAT	8 INVERTERS
K265	CAT	FIVE 100 MA REED RELAYS & DRIVERS, EITHER AXIAL OR PC RELAYS
K303	CAT	3 TIMER CKTS, DELAYS FROM 10 USEC TO 30 SEC, USED FOR ONE-SHOTS OR CLOCKS
K522	CAT	SENSOR CONVERTER, 2 DIFFERENTIAL INPUT CKTS, INT 1.8V REF
K522-YA	10	K522 WITH 500 OHM POTS INSERTED
K604	CAT	4 ISOLATED AC SWITCHES, CONTROL OF 120 VAC LOADS, USED WITH K716
K614	CAT	4 ISOLATED AC SWITCHES, SIM TO K604, USED WITH K724 OR K725
K652	CAT	4 DC DRIVERS, SWITCH UP TO 2.5 AMPS AT 55V
K683	CAT	8 DRIVER CKTS, OUTPUTS ON SPLIT LUGS, DRIVE 250 MA, 55V
K724	CAT	INTERFACE SHELL, USED FOR PDP14 I/O BOX SHELL
K725	CAT	INTERFACE SHELL, USES A PRINTED BACKPLANE FOR CONNECTIONS, 16 IN, 8 OUT (PDP14 I/O BOX)
K731	CAT	1 AMP REGULATOR, INPUT FROM 12.6 VAC CENTER-TAPPED TRANSFORMER, +5V OUT
K732	CAT	SLAVE REGULATOR, USED WITH K731, SUPPLIES TWICE AS MUCH CURRENT
M002	CAT	RESISTOR NETWORK, 15 CKTS FOR A SOURCE OF LOGIC 1 (3V)
M002-YA	11	10 390 OHM RES TO GND & 5 180 OHM RES TO +5V
M040	CAT	HIGH CURRENT DRIVER, 2 4-INPUT GATES, 70V, 600MA MAX/DRIVER
M044	PERIPH	4 SOLEDNOID DRIVERS, 2 INPUT AND GATES, LOADS RETURNED TO NEG VOLTAGE, 100 MA, -30V MAX
M050	CAT	INVERTER DRIVER, 12 CKTS, SWITCH -30V AND 50 MA MAX/DRIVER
M051	CAT	LEVEL CONV, POS LOG IN AND NEG LOG OUT, 12 CKTS, OPEN COLLECTOR
M060	CAT	4 DRIVERS, 1.2 AMPS AND 50V
M100	8	NEG BUS EQUIV TO M101
M101	CAT	2-INPUT GATES, 15 CKTS, 1 COMMON AND 1 INDEPENDENT INPUT
M102	8	NEG BUS EQUIV TO M103

MODULE	P/L	DESCRIPTION
M103	CAT	DEVICE SELECTOR FOR PQS 8/I BUS, 6-BIT AND IOP DECODING
M104	15	I/O BUS MULTIPLEX CONTROL FOR PDP-15 PERIPHERALS, SEE M194
M105	11	DEVICE SELECTOR FOR PDP-11
M106	14	BUS RECEIVER WITH WIRED OR OUTPUT CAPABILITY
M107	MOD	DEVICE SELECTOR, 12 OUTPUT PULSES, 2 FLAGS
M109	11	PDP-11 DEVICE SELECTOR WITH JUMPERS, BITS 13 THRU 17
M1091	11	MEMORY DEVICE SELECTOR, JUMPERS, BITS 11 THRU 17, SINGLE
M1103	MOD	2 INPUT AND, 10 CKTS, M113 PINS, 7408 IC, KOR16-A, SINGLE X 5
M111	CAT	16 INDEPENDENT INVERTERS
M112	CAT	2-INPUT NOR GATES, 10 INDEP CKTS
M113	CAT	2-INPUT NAND GATES, 10 INDEP CKTS
M115	CAT	3-INPUT NAND GATES, 8 INDEP CKTS
M116	CAT	4-INPUT NOR GATES, 6 CKTS, DEC0815'S
M117	CAT	4-INPUT NAND GATES, 6 INDEP CKTS
M119	CAT	8-INPUT NAND GATES, 3 INDEP CKTS
M121	CAT	2,2 AND-NOR, 6 CKTS
M126	10	H VERSION OF M121, (NOT PIN COMPATIBLE)
M127	15	2,2,2,3 AND-NOR, H, 3 CKTS
M128	10	4,4 AND-NOR, H, 3 CKTS
M129	15	4,4 AND-NOR, H, 4 CKTS
M130	10	5 8-BIT PARITY CKTS + 5 2-INPUT XOR GATES (MC4008)
M1307	16	4 INPUT AND, 6 CKTS, M117 PINS, 74H21 IC, KOR16-B, SINGLE X 5
M132	10	ADDER (8260) 4 BITS, KI10, 6 BUFFERS
M133	CAT	H VERSION OF M113
M135	CAT	H VERSION OF M115
M139	CAT	H VERSION OF M119
M141	CAT	2,2,2,2 AND-NOR GATES, 3 CKTS, 2 INVERTERS
M142	10	ADDER, DISCRETE EQUIV TO M132, DOUBLE
M143	10	10 2-INPUT NAND GATES, WITH ONE PAIR SHARING COMMON INPUT, KI10
M145	10	3-INPUT NAND GATES, 7 CKTS, 74H, KI10
M147	10	5 4-INPUT NANDS, 1 2-INPUT NAND, 74H, KI10
M149	15	9X2 NAND WIRED-OR, 2 SECTIONS OF 9 2-INPUT NANDS ORED TO 9 OUTPUTS
M151	10	DUAL BINARY TO OCTAL WITH ENABLE, H SERIES, KI10, 74H20
M152	10	M151 NON INVERTING, KI10, 74H21
M155	CAT	1 OF 16 DECODER WITH ENABLE, 74154 ON BOARD 50-08908A (SEE W962)
M159	CAT	4 BIT ARITHMETIC LOGIC UNIT, (DEC 74181), USES 50-08908 BOARD
M160	CAT	4,2,2,2,3 AND-NOR, 4,2,2,4 AND-NOR, 2,2 AND-NOR
M161	CAT	BINARY TO OCTAL/DECIMAL DECODER, 3 ENABLE INPUTS
M162	CAT	PARITY GENERATOR FOR 8/I, 4-BIT INPUT, ODD & EVEN PARITY OUT
M163	8	DUAL BINARY-TO-DECIMAL DECODER
M164	15	6-BIT ADDER FOR PDP-15, 2 ADDERS FOR CARRY IN 1 OR 0
M165	10	MEMORY BUFFER, INV & NON-INV OUT FROM OPEN COLLECTOR, 8 CH FOR KI10
M166	10	9 BIT COUNTING GATE, KI10
M167	11	COMPARES 2 8-BIT WORDS, <,=,>
M169	CAT	FUNCTIONAL GATE MODULE FOR PDP-12, 4 4-BIT OUTPUT MULTIPLEXERS
M170	10	3-3-3-2-2-2-2-2 AND-NOR & 3-2-2-2 AND-NOR, H, KI10
M1701	CAT	4 TO 1 MUX, 4 CKTS, 50-08912 ETCH, 74153, SINGLE
M1703	MOD	SINGLE 12-BIT WORD 8/E INTERFACE, QUAD X 8.5
M1705	MOD	DUAL 12-BIT WORD OMNIBUS OUTPUT INTERFACE, QUAD 8.5
M171	10	2,2,2,3 AND-NOR, 3 CKTS, DIFFERENT PINS THAN M127
M1713	CAT	16 TO 1 MUX INV, 74150, 50-08908 ETCH, SINGLE
M172	10	2 EN X 9 OUT MIXER, 74H50, FOR KI10
M173	10	NON-INVERTING M143
M174	10	4 EN X 9 OUT MIXER, 74H53'S, KI10, DOUBLE
M175	10	7 3-INPUT AND GATES, 74H, KI10
M177	10	NON-INVERTING M147
M178	10	8 EN X 6 OUT MIXER, 74H53, 74H62, KI10, DOUBLE
M181	10	NON-INVERTING M171
M182	15	M162 WITH FAST IC'S, H
M190	12	4 ARITHMETIC LOGIC, IN & OUT BUFFERS, SN74181, USED IN FPP12

MODULE	P/L	DESCRIPTION
M191	CAT	2 LOOK-AHEAD ELEMENTS (74182), USES W961 BOARD, USED WITH M190 OR M159 (BOARD 50-08912)
M192	12	2 8-INPUT PRIORITY ENCODERS, 9318 IC, 50-08912 BOARD
M194	15	I/O BUS MUX CONT FOR PDP9 PERIPHERALS (ENABLE BUS IN/OUT -3V LOGIC), SEE M104
M2000	DAS	18 BIT REGISTER W PARITY, DOUBLE 5
M202	CAT	3 JK FFS, S, CL, C
M203	CAT	8 SET-RESET FFS, (M113 GATES)
M204	CAT	4 JK FFS, CAN DO SYNCHRONOUS BINARY COUNTING
M205	CAT	5 D FFS, ALL PINS AVAILABLE
M206	CAT	6 D FFS
M207	CAT	6 INDEPENDENT JK FFS
M208	CAT	8 BIT SHIFT & BUFFER REGISTER, D FFS
M211	CAT	6 BIT UP/DOWN COUNTER
M212	12	6 BIT LEFT-RIGHT SHIFT REG, LOAD FROM 2 SOURCES, (2-R212'S)
M213	CAT	1 DECADE BCD UP/DOWN JAM COUNTER WITH PARALLEL READ IN
M214	15	6 BIT ACCUMULATOR WITH 3 INPUTS
M215	15	4 BITS OF 3 REGISTERS, COMMON ADDER PER BIT, COMMON CLOCK PER WORD
M216	8	6 D FF'S, (M206 WITHOUT CLEAR JUMPER CHOICE)
M217	12	CLOCK REGISTER FOR PDP-12, 4 BIT COUNTER WITH BUFFER REGISTER FOR PRESET OR READOUT
M219	15	7 BIT SYNCHRONOUS COUNTER WITH JAM & CLEAR PRESETS, DOUBLE
M220	8	REGISTER FOR PDP-8/I, 2 BITS EACH OF MA, MB, PC, AC, & ADDER
M222	12	TAPE REGISTER FOR PDP-12, 2 BITS, 6 REGISTERS, DOUBLE
M223	15	REGISTER FOR PDP-15, 4 BITS, MA & MB
M224	11	8 BITS WITH DATA PATHS FOR KA11, 2 LATCHES, ADDER, DOUBLE 8.5
M225	11	PROCESSOR MEMORY FOR KA11, 16 BITS X 16 BITS, DOUBLE 8.5
M226	15	1 BIT ALL REGISTERS (EXCEPT ACC) FOR PDP-15
M227	15	ACCUMULATOR FOR PDP-15, 9 BITS
M228	15	MARK TRACK DECODER FOR TC08,TC15
M229	15	4 UNIT SELECTOR DRIVER, VP15=M, 4FFS WITH BUFFERED OUTPUT GATES
M231	12	DUAL 12 BIT PRESETTABLE REPEATABLE COUNTER, DOUBLE, USED IN AIP12
M233	8	12 WORD SHIFT REGISTER WITH PARALLEL LOAD, CLEAR, COMMON CLOCK
M234	11	3 8 BIT REGISTERS, ADDER & L/R SHIFT, KE11-A
M235	14	3 12 BIT REGISTERS, 2 STORAGE & 1 CTS FOR 14/L, DOUBLE
M236	MOD	12 BIT SYNCHRONOUS UP/DOWN COUNTER WITH PARALLEL LOAD, ETCH BD 50-08931
M238	CAT	2 4-BIT SYNC UP/DOWN CNTR WITH PARALLEL LOAD, SEP UP & DOWN CLOCKS, ETCH BD 50-08912 (W961)
M239	11	3 4-BIT COUNTERS (8291'S) OR 74197, PARALLEL LOAD, SINGLE X 5
M240	15	6 SET-RESET FF'S MADE FROM 74H40 BUFFERS
M241	10	6 D FF'S (74H74) WITH COMMON CLOCK
M242	15	H EQUIVALENT TO M202
M243	10	8 D FF'S (74H74) WITH 2 COMMON CLOCKS, 4 BITS EACH
M244	11	6 CKTS, EACH 3 INPUT MX W LATCH, NON-INV, ENABLES 4 & 2, 3 TIMES, SINGLE X 8.5
M245	CAT	2 4-BIT SHIFT REGISTERS W PARALLEL READ IN, USES BOARD 50-08912 (SEE W961)
M246	10	5 D FLIP-FLOPS, ALL PINS BROUGHT OUT, (74H74)
M247	10	6 SET-RESET FF'S, CLOCKED TO 6 D FF'S, SINGLE X 5"
M248	CAT	8 BIT SHIFT RIGHT, PARALLEL LOAD, 50-08914 ETCH, 7495 IC'S
M249	14	12 BIT BUF REG WITH OPEN COLLECTOR OUTPUT GATES, SINGLE X 5
M250	10	16 WORDS, 4-BIT MEMORY, (F9035), KI10
M2500	11	2 64-WORD 4-BIT MOS 1ST IN 1ST OUT MEMORIES, SINGLE 5, 5008912, NEEDS -12V
M252	10	16 WORDS, 4 BITS (MOT 4005L), KI10, M250, DOUBLE
M253	10	16 WORDS, 12-BIT MEMORY, USES TI 7489
M259	11	ASSOCIATIVE MEMORY, 2X8, SHIFT REG CAPABILITY, SINGLE, 8.5, KI11
M260	10	ASSOCIATIVE MEMORY, 4 WORDS, 12 BITS, KI10, 4102 IC, FAIRCHILD, 35 NS MATCH TIME, DOUBLE
M302	CAT	2 ONE-SHOTS
M3020	CAT	2 ONE-SHOTS TO REPLACE M302, HYSTERISIS ADDED TO PREVENT NOISE TRIGGERING
M304	12	4 ONE-SHOTS, 100 NSEC OR 1 USEC ONLY
M306	MOD	INTEGRATING ONE SHOT, 500 NSEC MIN
M307	12	DUAL INTEGRATING ONE-SHOT, USES FAIRCHILD 9601'S, 5 USEC TO 500 MSEC
M3070	10	DUAL INTEGRATING ONE SHOT, 200 NSEC TO 20 MSEC IN 5 STEPS
M308	10	INTEGRATING ONE SHOT, EDGE OR PULSE TRIGGERED, CLOCK, POWER UP & DOWN
M310	CAT	TAPPED DELAY LINE, 500 NSEC TOTAL, 50 NSEC TAPS, 2 PA'S, IC LEVELS IN & OUT
M311	15	2 TAPPED DELAY LINES, 250 NSEC EACH, 25 NSEC STEPS

MODULE	P/L	DESCRIPTION
M312	15	6 100 OHM DELAYS, 2 AT 30 NS, 3 AT 50 NS, 1 VARIABLE 0 TO 40 NS, 74H40 INPUTS
M321	10	M311 EXCEPT 1 DELAY LINE, 1 OUTPUT BUFFER CAN DRIVE 30 TTL H LOADS
M360	CAT	VARIABLE DELAY LINE, IC LEVELS IN, (LIKE B360)
M362	10	DELAY, 25 TO 50 NSEC
M363	10	DELAY 15 TO 80 NSEC, INVERTS
M401	CAT	VARIABLE CLOCK
M402	15	REMOTELY VARIABLE CLOCK, USES 5V PHOTOMOD, 2 HZ TO 1 MHZ
M405	CAT	CRYSTAL CLOCK, POS & NEG PULSE OUTPUTS, 5 KHZ TO 10 MHZ
M4050	COM	CRYSTAL CLOCK, 5KHZ TO 5 MHZ, NOT TUNABLE, NO CHOKES
M415	12	20 MHZ XTAL CLOCK
M420	15	PHASE LOCK CLOCK, RP09, RP15
M452	CAT	TELETYPE CLOCK, SQUARE WAVES AT 880 & 220 HZ, FOR M706, M707
M453	8	M452 WITH VARIABLE FREQ
M454	11	CRYSTAL CLOCK W SIMULTANEOUS OUTPUTS OF 28.8, 19.2, 9.6, 4.8, 2.4, 1.760 KHZ
M454	CONT	2.152 KHZ, SINGLE 8.5 (FOR DC11-A, DP11-A)
M4540	11	M454 W MORE FREQUENCIES AVAILABLE.
M455	8	VARIABLE CLOCK, 2 RANGES, 4 - 20 MS, 0.4 - 2 MS, BY JUMPER
M500	CAT	NEGATIVE BUS RECEIVER (NEG EQUIV TO M510)
M501	CAT	SCHMITT TRIGGER
M502	CAT	NEGATIVE INPUT CONVERTER, 2 CHANNELS, 0 & -3V IN
M503	12	DIFFERENTIAL SCHMITT, 2 CHANNELS, PA IN EACH
M507	CAT	NEG BUS TO POS BUS CONV, 6 CKTS, OPEN COLL OUT, GND IN = GND OUT
M508	8	NEG BUS TO POS BUS CONV, 6 CKTS, OPEN COLL OUT, GND IN = PLUS OUT
M510	CAT	I/O BUS RECEIVER, 8 CKTS, POS BUS
M510-YA	12	M510 MODIFIED TO ACCEPT RTL INPUTS WITH 1 VOLT THRESHOLD
M511	10	UNIBUS RECEIVER, 15 CKTS, SINGLE X 5, 4 GND, DS11, DL10
M514	PERIPH	TU10 TRANSCEIVER (FOR CONNECTION TO TC58, TC59, & TM10), SEE M519, DOUBLE
M515	15	REAL TIME CLOCK, 12 VAC INPUT ON TABS, USES +11V & +5V
M517	8	M507 WITH AN ENABLE INPUT
M518	8/E	3 DIFFERENTIAL SCHMITTS & 8 BIT INPUT REGISTER (AS03 CKTS), DS8-EA
M519	PERIPH	TU10-C,-D BUS TRANSCEIVER, SEE M514
M531	PERIPH	8 CHANNEL NEGATIVE BUS RECEIVER WITH NOISE FILTERING (PIN COMP WITH M500)
M564	10	I/O BUS RECEIVER, NEG BUS, POS LOGIC, 8 CKTS, LIGHT INPUT LOAD
M565	10	MEM BUS RECEIVER, NEG BUS, POS LOGIC, 8 CKTS
M586	11	1 CH ASYNC MODEM DF11-BA (BELL 113A) ORIGINATE ONLY, DBL X 8.5
M587	11	1 CH ASYNC MODEM DF11-BB (BELL 113B) ANSWER ONLY, DBL X 8.5
M589	14	1 CH OPTICAL COUPLED 45 OHM 200 KC SEND & REC, SINGLE X 5 W MATE-N-LOCK
M5900	11	16 CH TTL RECEIVER, DJ11, DOUBLE 8.5
M5901	11	16 CH EIA TRANSMITTER, DJ11, DOUBLE 8.5
M5902	11	16 CH FULL DUPLEX TTY TRANSCEIVER, DJ11, DOUBLE 8.5
M5903	11	MASS BUS TERMINAL TRANSCEIVER, DOUBLE 8.5
M5903-YA	11	M5903 W TERMINATORS
M5904	11	MASS BUS CONTROL TRANSCEIVER, DOUBLE 8.5
M5906	COM	16 CH EIA-TTL, TTL-EIA, PRIORITY SOCKETS, 2 M854, DM11-AD, -AE, DOUBLE 8.5
M591	11	5 CH EIA TO DEC, 4 CH DEC TO EIA, SINGLE, 8.5
M592	10	I/O DEVICE SELECT (USED WITH M7100) 1074H IC'S
M5921	15	BUS TRANSCEIVER, CAN REPLACE M621, SINGLE 5
M593	CSS	6 CH DIFFERENTIAL RECEIVER, NAT SEMI 8820
M594	11	8 CH EIA-CCITT TO DEC, 7 DEC TO EIA-CCITT, DF11-A, SINGLE 8.5, 1V HYSTERESIS
M5940	10	M594 STD SINGLE SIZE
M5942	11	8 CH EIA-CCITT TO DEC, 7 DEC TO EIA-CCITT, 300, 600, 1200, 1800 BAUD XTAL CLK, DF11-L, DOUBLE 8.5
M595	11	CURRENT MODE CONV FOR 301 & 303 MODEM, DF11
M596	11	20 MA TO DEC, DEC TO 20 MA, 4 CHAN EACH, SINGLE X 8.5, DF11, REPLACED BY M5960
M5960	11	REPLACEMENT M596
M597	COM	6 CH IBM RECEIVER, +BUS, 50-08912, SIG 8T14 (W961)
M598	COM	1 CH OPTICAL COUPLED 20 MA TO DEC SEND & RECEIVE, 8.5 X SINGLE, DF11-K
M602	CAT	2 PULSE AMPLIFIERS
M603	10	2 PA'S, NEG EDGE IN, 1 POS 60 NS & 1 POS 45-100 NS OUT, 4 2-IN NANDS (74H00), 3 3-IN ANDS (74H11)
M606	CLP	6 PULSE AMPLIFIERS
M611	15	14 POWER INVERTERS, 6 GNDS

MODULE	P/L	DESCRIPTION
M612	10	6 POWER GATES, 6 GNDS, 5 INPUTS PER GATE PAIR
M617	CAT	6 4-INPUT NAND BUFFERS
M621	15	BUS DRIVER, 6 CKTS, ENABLES FOR EA OF 2 6-BIT WORDS, SINGLE 5 (SEE M5921 TRANSCEIVER)
M622	CAT	BUS GROUNDING, 8 CKTS, USES 74H50, FOR MEMORY & I/O BUS, 2 INPUT NEG AND EA
M623	CAT	BUS DRIVER, 12 CKTS, OPEN COLLECTOR, 100 MA AT GND
M624	CAT	BUS DRIVER, OPEN COLLECTOR, 12 INPUTS & 1 ENABLE, 2 INPUTS & EN, 1 INPUT INV, 100 MA @ GND
M626	IPG	M623 WITH GROUND ISOLATION (WITH TRANSFORMERS)
M627	CAT	6 4-INPUT NAND BUFFERS, (H VERSION OF M617)
M628	15	3 SWITCHES, 2 BIT ADDER, 1 M621 TYPE DRIVER, FOR MX15
M629	10	BUS DRIVER, 11 CKTS, FOR + BUS, PDP11, 88811'S
M632	CAT	NEG BUS EQUIV TO M622
M633	CAT	NEG BUS EQUIV TO M623
M636	IPG	M633 WITH GROUND ISOLATION
M640	PERIPH	TU10 BUS DRIVERS (30 CKTS)
M650	CAT	NEG OUTPUT CONV, 3 CHANNELS, R650 TYPE OUTPUTS
M651	8	M650 WITH OUTPUTS CLAMPED TO GND WHEN 5V GOES AWAY
M652	CAT	NEG OUTPUT CONV, 2 CHANNELS, 0 & -3V OUTPUT
M660	CAT	POS LEVEL DRIVER FOR 8/I BUS, 3 CKTS, +/-50 MA OUT
M662	8	6 CKTS, NON-INV BUS DRIVERS FOR KVGs (VT02), 6 US RISE & FALL INTO OPEN LINE
M663	10	3 NEG MEM BUS DC DRIVERS, POS INPUT, 50 OHM LOAD, KI10
M664	10	I/O BUS DRIVER, 0 TO +3V IN, 0 TO -3V OUT, 8 CKTS
M665	10	MEM BUS DRIVER, 0 TO +3V IN, 0 TO -3V OUT, 8 CKTS
M666	10	I/O BUS RESET, 12 OUTPUTS, 20 MA @ -3V, 1/3 DUTY FACTOR MAX, SINGLE X 5"
M681	IPG	ISOLATED M685 RELAY DRIVER
M683	IPG	6 RELAY DRIVERS, K683 CKT, FOR DR80, DOUBLE
M684	IPG	12 BIT FLIP-FLOP RELAY DRIVER FOR UDC (DD01)
M685	IPG	16 BIT M684
M6850	IPG	16 BIT FLIP-FLOP DC OUTPUT (ICMDC-0A) OR AC OUTPUT WITH H1600 (ICMAC-0A), HEX
M686	IPG	12 BIT SINGLE SHOT RELAY DRIVER FOR UDC (DD01)
M687	IPG	16 BIT M686
M6870	IPG	16 BIT SINGLE SHOT DC OUTPUT (ICMDC-0B) OR AC OUTPUT WITH H1600 (ICMAC-0B), HEX
M688	11	UNIBUS POWER FAIL DRIVER, SINGLE 5
M697	COM	4 CH IBM TRANSMITTER, 50-08912, SIG 8T13 (W961)
M7000	15	CURSOR CONTROL FOR VT05, QUAD X 8.5
M7001	15	CHARACTER GENERATOR & TIMING, VT05, QUAD X 8.5
M7002	15	MOS MEMORY & MEMORY TIMING, VT05, QUAD X 8.5
M7003	15	I/O INTERFACE, VT05, UP TO 300 BAUD, QUAD X 8.5
M7004	15	I/O INTERFACE, VT05, UP TO 2400 BAUD, QUAD X 8.5
M7007	TYP	FK11 CONTROL, VT20, QUAD 8.5
M7008	TYP	VT20-B DISPLAY CONTROL, HEX 8.5
M7009	TYP	VT20-B DATA INTERFACE, HEX 8.5
M701	8	DISPLAY CONTROL FOR VC8/I
M7010	LDP	VV15 TIMING & CONTROL, DOUBLE X 8.5
M7011	GRAPH	UART SERIAL INTERFACE, SINGLE 5, H854 + SPLIT LUGS, LK40
M7013	GRAPH	VECTOR GENERATOR & CHARACTER GENERATOR CONTROL, VT40, HEX 8.5
M7014	GRAPH	UNIBUS CONT & BOOTSTRAP FOR VT40, QUAD 8.5
M7015	LDP	UNIBUS INTERFACE FOR LPS, QUAD 8.5
M7016	LDP	PROGRAMMABLE REAL TIME CLOCK W 3 SCHMITT TRIGGERS, LPSKW, QUAD 8.5
M7017	LDP	DIGITAL I/O, 16 BITS, TTL LEVELS, SIMILAR TO M863, LPSDR, QUAD 8.5
M7018	LDP	A/D CONTROL, PART OF LPSAD-12, LPSAD-15, USED WITH A804, A865, A406, DOUBLE 8.5
M7019	LDP	DISPLAY CONT, PART OF LPSVC, COLOR TUBE, STORAGE TUBE & PLOTTER CAPABILITY, DOUBLE 8.5
M7020	LDP	LPSAD-NP, NPR CONTROL FOR LPSAD, DOUBLE 8.5
M7023	LDP	DIGITAL I/O, 16 BITS, LATCH CHOICE, INTERRUPT ON ANY INPUT BIT, LPSDR-A, QUAD
M7024	LDP	VT55 GRAPHING CONTROL MODULE, HEX, NO GOLD ON FINGERS
M704	8	PLOTTER CONTROL FOR 8/I
M705	8	READER CONTROL FOR 8/I
M7050	PERIPH	READER CONTROL WITH FEED HOLE STROBE & FEED HOLE TRANSITION OUT OF TAPE SENSE, DOUBLE
M706	CAT	ASYNCH LINE RECEIVER, 8 OR 5 BIT, (EQUIV TO 4706), POS LOGIC
M7065	11	SYNCH LINE RECEIVER, 6,7, OR 8 BITS, SINGLE X 8.5
M707	CAT	ASYNCH LINE XMTR, 8 OR 5 BIT, (EQUIV TO 4707), POS LOGIC

MODULE	P/L	DESCRIPTION
M7075	11	SYNCH LINE TRANSMITTER, 6,7 OR 8 BITS, SINGLE X 8.5
M708	8	CLOCK CONTROL, 8/I
M709	8	CLOCK COUNTER, 8/I
M710	8	PUNCH CONTROL FOR 8/I
M7100	10	I/O DEVICE CONTROL, USED WITH M592, 1074H IC'S
M7104	TPL	DATA BUF & STATUS, RK8-E, QUAD X 8.5
M7104-YA	TPL	MODIFIED TO RUN WITH DW8-E
M7105	TPL	MAJOR REGISTERS, RK8-E, QUAD X 8.5
M7105-YB	TPL	MODIFIED TO RUN WITH DW8-E
M7106	TPL	CONTROL, RK8-E, QUAD X 8.5
M711	12	SCOPE CONTROL FOR PDP-12
M7110	10	SYNCH MODEM INTERFACE FOR DS11, QUAD X 8.5
M7111	10	ERROR CORRECTION FOR RF10, 5 BIT CORRECTION/128 36 BIT WORDS
M7112	10	CONT FOR MF10, DOUBLE 8.5
M712	8	DISPLAY CONTROL FOR KV8/I
M713	8	MULTIPLEX INTERFACE FOR KV8/I
M714	8	CONTROL LOGIC I FOR CR8-I, CR8-L
M715	8	READER CLOCK FOR PC8/I, CLOCK ACCELERATOR, PA'S, NON IC PARTS OF M705
M717	15	DISPLAY CONTROL FOR VP09 & VP15
M7170	15	PDP15 TO MM11-L INTERFACE, DOUBLE 8.5
M7172	15	15 MEM TO UNIBUS INTERFACE, QUAD
M7173	15	MEMORY MULTIPLEXOR, HEX
M7174	15	15 INSTRUCTION PREFETCH, HEX
M7175	15	15 MEMORY MANAGEMENT, HEX
M7176	15	15 AUTOMATIC PRIORITY INTERRUPT, HEX
M719	12	CLOCK SYNC & DECADE COUNTER FOR KW12
M720	8	NON-EXISTANT MEMORY DETECTOR, INTEG ONE-SHOT, OTHER ONE-SHOT, & MISC LOGIC
M721	11	BUS INTERFACE 1, KA11, 8 BITS GATED IN & OUT, SINGLE 2.5
M7210	11	KE11-A DATA CONTROL, QUAD X 8.5
M7211	11	KE11-A REGISTER CONTROL, QUAD X 8.5
M7212	11	ADDRESS LINE BUS REPEATER FOR DB11, 75 NS PER EACH OF 10 CH, SINGLE X 8.5
M7213	11	BUS REPEATER CONTROL, FOR DB11, DOUBLE X 8.5
M7213-YA	CSS	M7213 MODIFIED BY SPEC SYS, 2 ETCH CUTS, 2 JUMPERS
M7216	11	PRIORITY & CONTROL, KC11, DOUBLE X 8.5
M7216-YA	11	M7216 FOR KH11-A
M7217	11	POWER FAIL & RESTART, KP11-A, SINGLE X 8.5
M7218	11	BUS REQUESTS
M7219	11	RC11 BUS INTERFACE, QUAD X 8.5
M7220	11	RC11 CLOCK CONTROL, SINGLE X 8.5
M7221	11	RC11 DISK INTERFACE, QUAD X 8.5
M7222	11	RC11 STATUS CONTROL, QUAD X 8.5
M7223	11	CONTROL FOR DP11-AA, QUAD X 8.5
M7224	11	RC11 UNIT & TRACK SELECTOR, SINGLE X 8.5
M7225	11	RC11 STATUS CONTROL EXTENDER, SINGLE X 8.5
M7226	11	DN11 CONTROL, DOUBLE X 8.5
M7227	CSS	XY11 PLOTTER CONTROL, 200-300 STEPS/SEC
M7228	11	REAL TIME PROGRAMMABLE CLOCK, KW11-P, 8.5 X QUAD
M7229	11	DR11-B INTERFACE FOR DA11-B, DBLE X 8.5
M7231	11/40	DATA PATHS, KD11-A, 8.5 HEX
M7232	11/40	U WORD, KD11-A, 8.5 QUAD
M7233	11/40	IR DECODE, KD11-A, 8.5 HEX
M7234	11/40	TIMING, KD11-A, 8.5 HEX
M7235	11/40	STATUS, PROCESSOR/KD11-A, 8.5 HEX
M7236	11/40	KT11-D MEMORY MANAGEMENT, 8.5 HEX
M7237	11/40	STACK LIMIT REGISTER, SINGLE 8.5
M7238	11/40	EIS (EXPANDED INSTRUCTION SET) BOARD, HEX 8.5, KE11-E
M7239	11/40	FIS CONTROL KE11-F, QUAD 8.5
M724	11	BUS & CONSOLE CONTROL FOR KA11, QUAD, 8.5
M724-YA	11	M724 FOR KH11-A
M7240	11	DM11-A CONTROL

MODULE	P/L	DESCRIPTION
M7241	11	DM11-B CONTROL, QUAD
M7242	11	DM11-C CONTROL
M7243	11	DM11 TRANSMITTER D
M7244	11	DM11 TRANSMITTER E
M7245	11	DM11 RECEIVER, QUAD
M7246	11	MODEM CONTROL SCAN, 16 LINES, DM11-BB
M7247	11	MODEM CONTROL MUX, 8 LINES, DM11-BB, SEE M7807, M7808, DOUBLE
M7248	11	UNIBUS REPEATER BBSY, SINGLE
M7249	11	HOLLERITH CHECK (MULTIPLE ONES ERROR DETECTOR), SINGLE X 5, FOR CD11
M725	11	BUS INTERFACE & IR, KA11, QUAD, 8.5
M725-YA	11	M725 FOR KH11-A
M7251	11	XOR & CRC BLOCK CHECK, DOUBLE X 8.5, KG11-A
M7254	11	RK11-D STATUS CONTROL
M7255	11	RK11-D DISK CONTROL, QUAD X 8.5
M7256	11	RK11-D REGISTERS, QUAD X 8.5
M7257	11	RK11-D BUS CONTROL, QUAD 8.5
M7258	11	LS11 INTERFACE, QUAD 8.5
M7259	11	PARITY FOR MF11-LP, DOUBLE 8.5
M726	11	IR DECODER FOR KA11
M726-YA	11	M726 FOR KH11-A
M7260	11/05	KD11-B BOARD #1, DATA PATHS, 8.5 X HEX
M7261	11/05	KD11-B BOARD #2, CONTROL LOGIC & MICROPROGRAM 8.5 X HEX
M7263	11/04	KD11-D PROCESSOR MODULE, HEX
M727	11	STATE CONTROL, KA11, QUAD, 8.5
M727-YA	11	M727 FOR KH11-A
M7277	11	XMIT SCANNER & NPR, DH11, HEX 8.5
M7278	11	REGISTERS & BYTE COUNT, DH11, HEX 8.5
M7279	11	1ST IN 1ST OUT BUFFER, DH11, DJ11, DOUBLE 8.5
M728	11	TIMING & STATES, KA11, QUAD, 8.5
M728-YA	11	M728 FOR KH11-A
M7280	11	8 UARTS ON QUAD 8.5, DJ11
M7281	11	CB11-DA UNIBUS TO 32 POINT RELAY DISTRIBUTOR MODULE, HEX 8.5
M7282	11	CB11-S UNIBUS TO 64 POINT INPUT SCAN, HEX 8.5
M7283	11	WINDOW DATA PATH BOARD DA11-F, QUAD 8.5
M7284	11	WINDOW CONTROL, DA11-F, QUAD 8.5
M7285	11	DJ11 MUX CONTROL BOARD, HEX 8.5
M7286	11	FK11 INTERFACE, VT20, QUAD 8.5
M7288	11	LINE PARAMETERS CONTROL, DH11, HEX 8.5
M7289	11	RECV SCANNER, DH11, 8.5
M729	11	CONTROL LOGIC & TIMING FOR MM11-E, DOUBLE, 8.5 (16 OR 17 BIT), 1.2 USEC MEM
M729-YA	11	M729 MODIFIED FOR 1.5 USEC RUGGED MEMORY
M7290	11	M729 FOR 980 NSEC MEMORY
M7291	11	16 POINT INPUT INTERRUPT FOR CB11-HA, HEX 8.5
M7292	11	TU60 INTERFACE, QUAD 8.5, DD11
M7293	11	TIMING & CONT, UNIBUS INTRFCE, MM11-U, MM11-UP, QUAD 8.5
M7294	11	DATA BUFFER & CONT, RH11, HEX 8.5
M7295	11	BUS CONTROL, RH11-A, HEX 8.5
M7296	11	CONTROL & STATUS REGISTERS, RH11, DOUBLE 8.5
M7297	11	MASS BUS PARITY CONTROL, RH11, DOUBLE 8.5
M7300	CAT	PDP16 GPA CONTROL, GEN PURPOSE ARITHMETIC UNIT, 4 4-BIT BYTES, USED WITH M7301'S, DOUBLE X 8.5, KAC16
M7301	CAT	PDP16 GPA REGISTER, GEN PURPOSE ARITH UNIT REGISTERS, 4 4-BIT BYTES, DOUBLE X 8.5, KAR16
M7305	CAT	PDP16 TRANSFER REGISTER, PROVIDES 16 BIT DATA STORAGE, MASKING & BYTE CONTROL, MS16-A
M7306	CAT	PDP16 FLAG MODULE, 3 SINGLE BIT STORAGE AND CONTROL, KFL16, SINGLE X 8.5
M7307	CAT	PDP16 CONSTANTS REGISTER, SMALL ROM, MR16-A, DOUBLE X 8.5
M7310	16	PDP16 EVOKE, 6 CKTS, MORE GEN VERSION OF K-SIMPLE, KEV16, SINGLE X 8.5
M7311	16	PDP16 GPI, GEN PURPOSE INPUT/OUTPUT, DB16-A, DOUBLE X 8.5
M7313	16	PDP16 TTY INTERFACE, TRANSDUCER, TTY XMTR & RCVR, DC16-A, DOUBLE X 8.5
M7318	16	PDP16 SCRATCH PAD, 16 16-BIT WORDS, MS16-C, DOUBLE X 8.5
M7319	16	PDP16 SCRATCH PAD, 256 16-BIT WORDS, MS16-D, DOUBLE X 8.5
M7322	16	PDP16 BUS MONITOR, KBM16, DOUBLE X 8.5

MODULE	P/L	DESCRIPTION
M7325	16	24 X 16 ROM, DOUBLE X 8.5
M7327-YA	16	BASIC DIAG (OPT) ROM 0
M7327-YB	16	BASIC DIAG (OPT) ROM 1
M7327-YC	16	BASIC DIAG ROM 2
M7327-YD	16	BASIC DIAG ROM 3
M7328	16	PCS EVOKE DECODER, 32 STATES, DBL X 8.5
M7329	16	PCS MULTIPLEX INPUTS, 29 INPUTS, DBL X 8.5
M7332	16	BUS CONTROL, DBL X 8.5
M7334	16	PDP16 LIGHT & SWITCH INTERFACE, DOUBLE 8.5
M7335	16	PDP16 SERVICE BOARD, DOUBLE 8.5
M7336	16	EXPANDED PROGRAM CONTROL SEQUENCER, DOUBLE 8.5
M734	CAT	I/O BUS MULTIPLEXER, 3 12-BIT WORDS TO BUS
M7379	CLP	CLOCK, 110 TO 39.6K BAUD, PDM70, DOUBLE 8.5
M7380	CLP	CONTROL, PDM70-P, DOUBLE 8.5
M7381	CLP	DIGITAL INPUT, 32 BITS, PDM70-D, QUAD 8.5
M7382	CLP	DIGITAL OUTPUT, 32 BITS, PDM70-E, QUAD 8.5
M7383	CLP	4 CH ANALOG INPUT CARD, PDM70-F, QUAD 8.5
M7384	CLP	2 CH ANALOG OUTPUT CARD, PDM70-H, QUAD 8.5
M7385	CLP	BIT SERIAL INPUT/OUTPUT, EIA OR 20 MA, PDM70-J, QUAD 8.5
M7386	CLP	CHARACTER SERIAL INPUT/OUTPUT, 16 KEY KEYBOARD DISPLAY, PDM70-K, QUAD 8.5
M7387	CLP	HARDWARE READ-IN MODULE FOR POWER FAIL/RESTART PDM70-N, SINGLE 8.5
M7388	CLP	CHARACTER SERIAL INPUT/OUTPUT GENERAL PURPOSE, PDM70-M, QUAD 8.5
M7389	CLP	ADDRESSABLE ASYNC TRANSCIEVER WITH PROGRAMMABLE CLOCKS, 110 TO 4800 BAUD, DBL X 8.5
M7390	CLP	ASYNCH TRANSCIEVER, RT01, DOUBLE
M7391	CLP	12 X 4 BUFFER, RT01
M7393	CLP	16 CHAR KEYBOARD ENCODER, RT01
M7395	CLP	DISPLAY CONTROL, RT02, SINGLE 8.5
M7399	CLP	AUDIO ALARM, RT02-B, DOUBLE 8.5
M740	14	INSTRUCTION DECODING & REGISTER CONTROL FOR PDP14, DOUBLE, DOUBLE
M7400	14	PDP14 INSTR DECODER & CONTROL, TO REPLACE M740, DBL X 5
M7403	14	TIMING FOR DL14, DBL X 5
M7404	14	CONTROL FOR DL14, DBL X 5
M7405	14	MEMORY FOR DL14, DBL X 5, 256 X 4 + 156 X 6
M7407	14	MM11-E INTERFACE, QUAD 6
M741	14	MAJOR STATES & TIMING FOR PDP14
M742	14	SWITCH & POWER CONTROL FOR PDP14
M743	14	K INTERFACE CONTROL FOR PDP14
M7431	14	PDP14/30 MEM CONTROL, QUAD 8.5
M7432	14	PDP14/30 I/O TIMING CONTROL, QUAD
M7433	14	PDP14/30 I/O MULTIPLEX DRIVERS, QUAD 8.5
M744	14	COMPARE CONTROL FOR PDP14, COMPARES 2 12-BIT WORDS WITH EACH OTHER OR ZERO, DOUBLE
M7441	14	KEYBOARD CONTROL, OMNIBUS, VT14, QUAD, TOP CONNECTED TO M7443
M7443	14	VIDEO CONTROL, OMNIBUS, VT14, QUAD, TOP CONNECTED TO M7441
M745	14	INTERFACE, PDP14 TO PDP8/I,L, 72 PINS, DOUBLE BUS TERMINATION INCLUDED
M7450	14	PDP14 TO PDP8 INTERFACE, REPLACES M745, DBL X 6
M7451	14	PDP14/30 TO PDP8 POS BUS I/O INTERFACE, QUAD 8.5
M746	14	BUS REGISTER FOR PDP14, 6 D FF'S WITH OPEN COLLECTOR OUTPUT GATING, DIRECT SETS & COMMON CLEAR
M747	14	BUS REGISTER FOR PDP14, (SIMILAR TO M746), INCREMENTS & DECREMENTS
M748	14	SERIAL TRANSMITTER, 14 BIT ERROR CORRECTION, ASYNC, DOUBLE X 5
M7481	14	DC14-E, HIGH SPEED SERIAL INTERFACE, PDP14/30, QUAD 8.5
M7483	14	DC14-F, UART VERSION OF M7481, 2 8-LEVEL CODE WORDS W PARITY, LOW PRIORITY ONLY, QUAD 8.5
M749	14	SERIAL RECEIVER, 14 BIT ERROR CORRECTION, ASYNC, DOUBLE X 5
M750	8	LINE I/O CONTROL, EQUIV TO 2 M750'S, DOUBLE
M751	8	LINE REGISTER & R REG FOR DC08A, I/O BUS CONNECTION, DOUBLE
M752	8	INSTRUCTION DECODER & GATES FOR DC08A, DOUBLE
M753	8	CONTROL FOR 2 DATA SET LINES IN DC08F
M760	12	A/D CONTROL FOR PDP-12, POSSIBLE GENERAL APPLICATION
M762	15	ROM DIODE MATRIX RECEIVER
M763	PERIPH	9 TRACK WRITE BUFFER, FOR TU10, NEG LOGIC, SEE M893
M765	PERIPH	9 TRACK READ BUFFER, FOR TU10

MODULE	P/L	DESCRIPTION
M767	PERIPH	CLOCK & SKEW DELAY LOGIC FOR TU10
M7670	PERIPH	FORWARD BOT TIMER, TU10
M7671	PERIPH	MASTER/SLAVE BUS DRIVER FOR TU10 MASTERS, 25 CKTS, DOUBLE X 5
M7672	PERIPH	TU10 MASTER CONTROL BUFFERS, DOUBLE X 5
M7673	PERIPH	TU10 DATA CHECKER, DOUBLE X 5
M768	PERIPH	DELAY SELECTOR FOR TU10 WITH TC50, TC59, TM10
M769	PERIPH	FUNCTION CONTROL FOR TU10
M770	15	EAE CONTROL FOR PDP-15
M7700	PERIPH	SECTOR CTR, INDEX & PHOTOAMP FOR RK05, DOUBLE X 8.5
M7701	PERIPH	CONTROL & SAFETY INTERLOCKS FOR RK05, DOUBLE X 8.5
M7702	PERIPH	TRACK ADDRESS & DIFFERENCE CNTR FOR RK05, DOUBLE X 8.5
M771	15	INTERNAL DEVICE DECODER FOR PDP-15
M7710	PERIPH	PRINT CYCLE TIMING, LA30, DOUBLE
M7711	PERIPH	CONTROL LOGIC A, LA30, DOUBLE
M7712	PERIPH	CONTROL LOGIC B, LA30, DOUBLE
M7713	PERIPH	RIBBON CONTROL & LAST CHAR VISIBILITY, LA30, DOUBLE
M7714	PERIPH	CHARACTER GENERATOR, LA30, DOUBLE
M7715	PERIPH	LINE FEED CONTROL, LA30, DOUBLE
M7716	PERIPH	MOTOR TRANSLATOR, LA30, DOUBLE
M7717	PERIPH	MOTOR CONTROL, LA30, DOUBLE
M7718	PERIPH	KEYBOARD INTERFACE, LA30, CONNECT TO 8/I, 8/L, 12, OR 15, PARALLEL (CAN REPLACE M706), DOUBLE
M7719	PERIPH	TRANSMIT DATA TO LA30 PRINTER, PARALLEL, (CAN REPLACE M707), DOUBLE
M772	15	CONSOLE CONTROL #1 FOR PDP-15
M7721	PERIPH	CONTROL LOGIC A, (M7711 WITH BELL LOGIC) LA30, DOUBLE 5
M7722	PERIPH	LA36 MICROPROCESSOR, 10 X 15, NO FINGERS (REPLACED BY M7723)
M7723	PERIPH	LA36 MICROPROCESSOR, REPLACEMENT FOR M7722, HAS TEST PADS, NO FINGERS, 10 X 15
M7724	PERIPH	M7714 WITH 7474'S INSTEAD OF MC4015'S
M7726	PERIPH	RX01 CONTROL
M7727	PERIPH	RX01 READ/WRITE ELECTRONICS
M773	15	CONSOLE CONTROL #2 FOR PDP-15
M7731	PERIPH	SERIALINTERFACE CONTROL, LA30
M7741	14	PDP14/30 TIMING & REGISTERS, QUAD 8.5
M775	15	TIME STATE GENERATOR
M7751	PERIPH	ENCODER-DECODER PLL (PHASE LOCK LOOP), 4 LAYER DOUBLE X 8.5, RS03 (STANDARD DOUBLE INNER LAYER)
M7752	PERIPH	DESKEW LOGIC, RS03, DOUBLE X 8.5
M7753	PERIPH	DATA BUFFER, RS03, DBL X 8.5, INCLUDES CRC
M7754	PERIPH	ADDRESS REGISTER, RS03, DBL X 8.5
M7755	PERIPH	CONTROL, RS03, DRL X 8.5
M7756	PERIPH	ALTERNATE TRACK OPTION, RS03, DBL X 8.5
M7757	PERIPH	RS04-TA (TIMING TRACK WRITER) QUAD 8.5
M7759	PERIPH	COMMAND DECODE, DOUBLE 8.5
M776	15	READER REGISTER
M7760	PERIPH	CASSETTE LOGIC, TU60, HEX 8.5, NO FINGERS
M7761	PERIPH	CASSETTE SERVO & READ, TU60, HEX 8.5, NO FINGERS
M7770	PERIPH	RS03 STATUS, DOUBLE 8.5
M7771	PERIPH	RS03 FORMAT, DOUBLE 8.5
M7772	PERIPH	RP04 SYNCHRONOUS LOGIC, 4 LAYER HEX
M7773	PERIPH	RP04 ASYNCHRONOUS LOGIC, HEX
M7774	PERIPH	RP04 REGISTER LOGIC, HEX
M7775	PERIPH	RP04 DUAL PORT LOGIC, HEX
M7776	PERIPH	RP04 ERROR CORRECTION LOGIC, 4 LAYER HEX
M7777	PERIPH	RP04 MDLI (MIN DEVICE LEVEL INTERFACE) TRANSMITTER, DOUBLE 8.5
M7778	PERIPH	RP04 MDLI RECEIVER, DOUBLE 8.5
M780	11	TELETYPE TRANSMITTER & RECEIVER FOR KL11, 110 BAUD, DOUBLE
M780-YB	11	150 BAUD M780
M780-YC	11	300 BAUD M780
M780-YD	11	600 BAUD M780
M780-YE	11	1200 SEND, 110 RECEIVE M780
M780-YF	11	2400 BAUD M780
M7800	11	ASYNC TRANSMITTER & RCVR, KL11, JUMPER BAUD RATE FROM 110 TO 2400, TO REPLACE M780, M105, M782

MODULE	P/L	DESCRIPTION
M7800	YA 11	M7800 WITHOUT EIA CHIPS, CURRENT LOOP ONLY
M7807	11	M7247, M105, M7821 ON ONE QUAD, EIA ONLY
M7808	11	M7247 & M7246 ON ONE QUAD, EIA ONLY
M7809	11	16CH 10BIT A/D, 1 CH D/A, CLOCK, 4 LAYER HEX
M781	11	PC11 CONTROL BOARD, FOR KA11
M7810	11	M781 + M105 + M7821, QUAD X 8.5 (INTERFACE BETWEEN 11 & HIGH SPEED READER/PUNCH)
M7812	11	DQ11-AA BUS SELECTORS, CSR'S, SHIFT REGISTERS, HEX 8.5
M7813	11	DQ11-AA CHAR COUNT, BUS ADDRESS, SHIFT CONT, HEX 8.5
M7814	COM	DZ11, 8-LINE 20 MA DATA MUX, HEX
M7815	11	DQ11-AA MODEM CONTROL (DQ11-BA), SINGLE 8.5
M7816	11	DQ11-AB BUS SELECTORS & BLOCK CHECK CHAR, HEX 8.5
M7817	11	DQ11-AB CHAR DETECTION & SEQUENCE CONT (DQ11-BB), HEX 8.5
M7818	11	DQ11-AA HARDWIRED CHAR DETECTION & NPR CONT, DOUBLE 8.5
M782	11	INTERRUPT CONTROL, 6 BITS, 1 PER PDP11 PERIPHERAL
M7820	11	INTERRUPT CONTROL, 7 BITS, 1 PER PDP11 PERIPHERAL, WILL BE REPLACED BY M7821
M7821	11	FAST M7820
M7822	11	DU11, QUAD 8.5
M7823	11	WATCH DOG TIMER, KW11=W, DOUBLE 8.5
M7826	CSS	DVS11 SERIAL LINE XMIT/RECEIVER, SYNC, ASYNC, ISOCRONOUS, DOUBLE 8.5
M7827	CSS	XY311 CONTROL BOARD, DOUBLE 8.5
M783	11	12 BUS DRIVERS, PDP-11, SINGLE X 8.5
M7835	SSCAL	TONE ALERT, USED IN DD11, SINGLE 8.5
M7836	COM	DV11 ALU & TRANSFER BUS, HEX
M7837	COM	DV11 UNIBUS DATA & NPR CONTROL, HEX
M7838	COM	DV11 ROM, RAM, & BRANCH, HEX
M7839	COM	SYNCHRONOUS MUX LINE CARD, HEX
M784	11	UNIBUS RECEIVER, PDP-11
M7840	11	EAE, KE11-B, HEX, KE11-A COMPATIBLE
M7843	11	DR11-K DIGITAL I/O, HEX
M7846	PERIPH	RX01 UNIBUS INTERFACE, QUAD
M785	11	UNIBUS DRIVER & RECEIVER, 8 BITS, PDP-11, SINGLE X 8.5
M7854	11	TMA-11 OPI/BTE DETECTOR (OPERATION INCOMPLETE OR BAD TAPE), SINGLE 5
M786	11	UNIBUS TRANS & REC. & REG, 16 BITS, BR, PDP-11, DOUBLE, 8.5, SEE M7866
M7860	11	DR11-C = M786 + M105 + M7821, QUAD X 8.5 (GENERAL DEVICE INTERFACE TO 11), SEE M7866
M7866	11	DR11-C, REPLACES M786, M7860, 16 BIT PARALLEL BR INTERFACE, QUAD
M787	11	KW11-K, LINE FREQUENCY INTERRUPT CLOCK
M788	11	MR11-A CONTROL LOGIC, DOUBLE, 8.5
M7892	11	M7292 W 8881 & 380
M791	11	LA30 INTERFACE FOR PDP11, DBL X 8.5
M792	11	32 WORD, 16 BIT ROM DIODE MATRIX, ALL DIODES IN, QUAD, 8.5, USED IN DD11
M792-YA	11	PAPER TAPE LOADER
M792-YB	11	DISK LOADER ROM
M792-YC	11	CARD READER BOOTSTRAP ROM
M792-YD	11/45	CARD 1 OF MR11-DB BOOTSTRAP LOADER
M792-YE	11/45	CARD 2 OF MR11-DB BOOTSTRAP LOADER
M792-YF	CPL	DS500 LOADER ROM
M792-YH	11	TA11 BOOTSTRAP LOADER
M792-YK	11	VT20 BOOTSTRAP
M793	11	CONTROL FOR LINE PRINTER (LP11), DOUBLE, 8.5, SIDE M904 CONNECTOR
M7930	11	M793 + M105 + M7821, QUAD X 8.5 (INTERFACE TO DATA PRODUCTS LINE PRINTERS)
M794	11	MODEM INTERFACE & CONTROL CARD (DC11-0)
M7940	11/03	DLV11, SERIAL LINE UNIT, DOUBLE 8.5
M7941	11/03	DRV11, 16 BIT PARALLEL LINE UNIT, DOUBLE 8.5
M795	CAT	WORD COUNT & CURRENT MEM ADDRESS, DOUBLE X 8.5
M796	11	UNIBUS MASTER CONTROL, SINGLE X 8.5, USED WITH M782
M797	11	REGISTER SELECT MODULE, SINGLE X 5, USED WITH M105
M798	11	UNIBUS DRIVER, 16 CHANNELS, WIRED OR INPUTS, SINGLE X 5
M799	11	DISPLAY CONTROL FOR AA11, DOUBLE X 8.5
M7990	11	LAB11 COLOR CONTROL, SINGLE X 8.5
M802	IPG	12 BIT LATCHING RELAYS FOR DD01

MODULE	P/L	DESCRIPTION
M803	IPG	16 BIT M802
M8030	IPG	16 BIT LATCHING RELAYS, IRL-0A, HEX
M804	IPG	12 BIT FLIP FLOP RELAYS FOR DD01
M805	IPG	16 BIT M804
M8050	IPG	16 BIT FLIP FLOP RELAYS, IRL-0B, HEX
M806	IPG	12 BIT SINGLE SHOT REALYS FOR DD01
M807	IPG	16 BIT M806
M8090	IPG	ICS11 MASTER CONTROL, HEX
M8091	IPG	ICS8 MASTER CONTROL, HEX
M8092	IPG	ICS8 FILE CONTROL, HEX
M8094	IPG	ICR11, REMOTE MASTER CONTROL, HEX
M8096	IPG	ICR11 REMOTE SLAVE CONTROL, HEX
M8098	IPG	ICR11 REMOTE MODEM CONTROL, 1 MEGABAUD, HEX
M8100	11/45	DAP (DATA PATH MODULE), 11/45, HEX X 8.5, 4 LAYER
M8101	11/45	GRA (GENERAL REGISTER ADDRESS), 11/45, 8.5 HEX, 4 LAYER
M8102	11/45	IRC (INSTRUCTION REGISTER CONTROL), 11/45, 8.5 HEX, 4 LAYER
M8103	11/45	RAC (ROM ADDRESS CONTROL), 8.5 HEX, 4 LAYER
M8104	11/45	PDR (PROCESSOR DATA & UNIBUS REGISTERS), 11/45, 8.5 HEX, 4 LAYER
M8105	11/45	TMC (TIMING & MISC CONTROL), 11/45, 8.5 HEX, 4 LAYER
M8106	11/45	UBC (UNIBUS CONTROL), 8.5 HEX, 4 LAYER (WILL BE REPLACED BY M8119)
M8107	11/45	SAP (SEGMENTATION ADDRESS PATHS), 8.5 HEX 4 LAYER
M8108	11/45	SSR (SEGMENTATION STATUS REG), 8.5 HEX 4 LAYER
M8109	11/45	TIG (TIMING GENERATOR), 8.5 QUAD, 4 LAYER
M8110	11/45	MEM CONTROL FOR MOS MEM, 8.5 HEX, 4 LAYER
M8111	11/45	1K X 16 BITS BIPOLAR MEMORY
M8111-YA	11/45	18 BIT M8111
M8112	11/45	FRM (FLOATING POINT ROM CONTROL) 8.5 HEX, 4 LAYER
M8113	11/45	FXP (FLOATING POINT EXPONENT DATA PATHS) 8.5 HEX, 4 LAYER
M8114	11/45	FRH (FRACTION HIGH ORDER DATA PATH) 8.5 HEX, 4 LAYER
M8115	11/45	FRL (FRACTION LOW ORDER DATA PATH) 8.5 HEX, 4 LAYER
M8116	11/45	SJB (SEGMENTATION JUMPER BOARD), 8.5 HEX, 2 SIDES
M8119	11/45	UBC (11/45 UNIBUS CONTROL FOR FP11-C COMPATIBILITY), 4-LAYER HEX, REPLACES M8106
M8130	11/70	M8100 MODIFIED, DPA (DATA PATHS) 4-LAYER HEX
M8131	11/70	M8101 MODIFIED, GRA (GENERAL REGS & ALU CONT), 4-LAYER HEX
M8132	11/70	M8102 MODIFIED, IRC (IR DECODE & COND CODES), 4-LAYER HEX
M8133	11/70	M8103, MODIFIED, RAC (ROM & ROM CONT), 4-LAYER HEX
M8134	11/70	M8104 MODIFIED, PDR (PROCESSOR DATA & UNIBUS REGS) 4-LAYER HEX
M8135	11/70	M8105 MODIFIED, TMC (TRAP & MISC CONTROL) 4-LAYER HEX
M8136	11/70	M8106 MODIFIED, UBC (UNIBUS & CONSOLE CONT) 4-LAYER HEX
M8137	11/70	M8107 MODIFIED, SAP (SYSTEM ADDRESS PATH) 4-LAYER HEX
M8138	11/70	M8108 MODIFIED, SSR (SEGMENTATION STATUS REG) 4-LAYER HEX
M8139	11/70	M8109 MODIFIED, TIG (TIMING GENERATOR) 4-LAYER QUAD
M8140	11/70	SCC (SEGMENTATION & CONSOLE CONT) 4-LAYER HEX
M8141	11/70	MAP (MAPPING BOX) 4-LAYER HEX
M8142	11/70	CACHE CCB (CACHE CONTROL BOARD) 4-LAYER HEX
M8143	11/70	CACHE ADM (ADDRESS MEMORY BOARD) 4-LAYER HEX
M8144	11/70	CACHE DTM (DATA MEMORY), 4-LAYER HEX
M8145	11/70	CACHE CDP (CACHE DATA PATH) 4-LAYER HEX
M8148	11/70	MCT (MEMORY CONTROL & TIMING) 4-LAYER HEX
M8149	11/70	MXR (MEMORY TRANSCEIVER CARD) 4-LAYER HEX
M8150	11/70	RH70 MASSBUS DATA PATH, 4 LAYER HEX
M8151	11/70	RH70 CST (CONTROL & STATUS), 4 LAYER HEX
M8152	11/70	RH70 AWR (ADDRESS & WORD COUNT REGS), QUAD
M8153	11/70	RH70 BCT (UNIBUS CONTROL), QUAD
M820	11/20	DATA PATHS CONTROL, KA11, QUAD, 8.5
M821	11/20	MEMORY CONTROL, KA11, DOUBLE, 8.5
M822	11/20	FLAG CONTROL, KA11, DOUBLE, 8.5
M822-YA	11/20	M822 FOR KH11-A
M823	11/20	CODES, DATA, PDP-11, SINGLE, 8.5
M824	11/20	PRIORITY, KA11, DOUBLE, 8.5

MODULE	P/L	DESCRIPTION
M824-YA	11/20	M824 FOR KH11-A
M825	11/20	POWER FAIL, SINGLE, 8.5
M825-YA	11/20	M825 FOR KH11-A
M8251	11/20	NPR EXPANSION, KH11-A
M826	11	75 TO 250 NS CLOCK WITH SR, (8 PHASE CLOCK), SINGLE X 8.5
M827	11	CLOCK & STATES, KE11-A, QUAD, 8.5
M8280	11	CONSOLE INTERFACE FOR 11R20, KY11-E,-F, QUAD X 8.5
M829	11	CARD READER CONTROL, DOUBLE X 8.5, FOR CR11 & CM11
M8290	11	M829 + M105 + M7821, QUAD X 8.5
M8293	11	M7293 w NO 8838'S
M830	8/E	MAJOR REGISTER FOR KK8-E
M8300	8/E	MAJOR REGISTER FOR KK8-E, REPLACES M830 WHEN USED WITH M8310, QUAD
M8302	8/E	LV01 CONT, LV8, QUAD 8.5
M831	8/E	REGISTER CONTROL FOR KK8-E
M8310	8/E	REGISTER CONTROL FOR KK8-E, REPLACES M831 WHEN USED WITH M8300, QUAD
M8311-YA	8/A	1K X 12 MOS RAM W ROM INTERFACE, QUAD (MS8-AA), USING 2102
M8311-YB	8/A	2K X 12 MOS RAM W ROM INTERFACE, QUAD (MS8-AB), USING 2102
M8311-YD	8/A	4K X 12 MOS RAM W ROM INTERFACE, QUAD (MS8-AD), USING 2102
M8315	8/A	1 HEX BOARD OMNIBUS CPU, 8/E INSTRUCTION SET
M8316	8/A	OPTION BOARD #1, SLU, XTAL CLOCK, GP PARALLEL INTERFACE, FRONT PANEL CONTROL, DKC8-AA, HEX
M8317	8/A	OPTION BOARD #2, MEM EXT & TIME SHARE CONT, BOOTSTRAP, PWR FAIL START, HEX (KM8-AA)
M832	8/E	LOAD RESISTORS FOR BUS, 8/E
M8320	8/E	BUS LOADS FOR 8/E, REPLACES M832, QUAD
M8321	8/E	TM8-E OUTPUT CONTROL
M8322	8/E	TM8-E CONTROL & BREAK
M8323	8/E	TM8-E TRANSPORT STATUS CONTROL
M8327	8/E	TM8-E REGISTERS
M8328	TPL	BUF MEM CLAMP LOADS, SWITCHES & INDICATORS (8M8-L), QUAD
M8329	8/E	LC8-E PARALLEL INTERFACE TO LA30-P, 8.5 X QUAD
M8330	8/E	IMPROVED M833 (SEE M8347), QUAD
M8331	8/E	CASSETTE CONTROL (TA8/E), QUAD
M8332	14	DC14-B CONTROL (USED WITH UP TO 12 M8333'S), QUAD X 8.5, PLUG INTO OMNIBUS
M8333	14	DC14-C ASYNC 14 BIT ERROR CORR, XMIT & RECEIVE, 8.5 X QUAD, PLUG INTO OMNIBUS
M8334	14	DC14-D CONTROL (USED WITH UP TO 12 M8333'S), UNIBUS COMPATIBLE, QUAD X 8.5
M8335	8/E	VT8-E KEYBOARD PRINTER CONTROL, QUAD 8.5
M8336	8/E	VT8-E FREQUENCY DIVIDER, QUAD 8.5
M8337	8/E	VT8-E LINE BUFFER, QUAD 8.5
M8340	8/E	EAE INSTRUCTION DECODER, QUAD
M8341	8/E	EAE REGISTER CONTROL, QUAD
M8342	8/E	LS8-E PARALLEL CONT- WILL REPLACE M8329
M8347	8/E	TIMING GENERATOR FOR 8/E W STOP CLOCK INPUT, CAN REPLACE M8330, QUAD 8.5 (KM8-F) (ECO'D INTO M8330)
M8349	8/E	1K 12 BIT PROM & CONT + 256 WORDS R/W, (INTEL 1702 REPROGRAMMABLE ROM), NEEDS +5V & -15V, QUAD 8.5
M8349-YA	8/E	M8349 WITH ONLY 256 WORDS OF PROM
M8349-YE	14	M8349 WITH ONLY 1K 12 BIT PROM & NO SWITCH START LOGIC
M835	8/E	POSITIVE BUS INTERFACE CARD FOR PDP8-E
M8350	8/E	FASTER M835, REPLACES M835, QUAD
M8356	8/E	KEY OPTION; MATCHES KEYS TO MEM ADDRESS REGISTER & HALTS, QUAD
M8357	8/E	RX01 OMNIBUS INTERFACE
M836	8/E	DATA BREAK BUS INTERFACE CARD FOR PDP8-E
M8360	8/E	FASTER M836, REPLACES M836, QUAD
M8365	8/E	LC8-P, CONTROL FOR LA180, QUAD
M837	8/E	MEMORY EXTENSION CONTROL FOR PDP8-E, ALSO TIME SHARE
M839	8/E	SYNC MODE INTERFACE CARD FOR DP8-E
M840	8/E	PC04-BL & PC04-BM CONTROL (PC8-E, PC8-EA)
M841	8/E	LE8-C, DATA PRODUCTS LINE PRINTER CONTROL, LP8-E
M842	8/E	XY PLOTTER CONTROL
M843	8/E	GDI CARD READER CONTROL
M847	8/E	ROM, M18-E, ALL DIODES IN
M847-YA	8/E	ROM FOR M18-EA HIGH/LOW SPEED PAPER TAPE RIM
M847-YH	8/E	T08-E BOOTSTRAP (M18-EH)

MODULE	P/L	DESCRIPTION
M848	8/E	POWER FAIL DETECT & AUTO RESTART, 8-E, QUAD
M8480	8/E	IMPROVED M848, USED ONLY WITH M8330
M849	8/E	RFI SHIELD, 8-E, QUAD
M851	IPG	BUS RECEIVER & 8 BIT ADDRESS DECODER FOR DD02
M8562	KL10	MA20 TIMING, DOUBLE 8.5
M8588	10	MG10 PARITY CHECK, 4 LAYER DOUBLE 8.5
M8589	10	MG10 CYCLE TIMING, 4-LAYER DOUBLE 8.5
M8590	10	MG10 PRIORITY CONTROL, 4-LAYER DOUBLE 8.5
M8591	10	MG10 ADDRESS RECEIVER, 4-LAYER DOUBLE 8.5
M8592	10	MG10 PORT ADDRESS, 4-LAYER DOUBLE 8.5
M8593	10	MG10 DATA REGISTER, 4 LAYER DOUBLE 8.5
M8593-YA	10	MG10 ADDRESS REGISTER
M8594	10	MG10 DATA TRANSCIEVER, 4 LAYER DOUBLE 8.5
M8595	10	DX10 MEMORY BUS INTERFACE, 4 LAYER HEX
M8596	10	DX10 CHANNEL BUS INTERFACE, 4 LAYER HEX
M8597	10	DX10 PDP8 INTERFACE, 4 LAYER HEX
M8598	10	DX10 I/O & MEMORY CONTROL, 4 LAYER HEX
M8599	10	DX10 BYTE ASSEMBLY LOGIC, 4 LAYER HEX
M860	8/E	REAL TIME CLOCK, DK8-EF, 8-E, QUAD
M863	8/E	12 CH DIGITAL I/O (DR8-EA)
M865	8/E	CONSOLE TELETYPE CONTROL, 110 BAUD, KL8-E, QUAD X 8.5
M865-YA	8/E	150 BAUD, KL8-EB
M8650	8/E	REPLACEMENT FOR M865, QUAD X 8.5
M8650-YA	8/E	REPLACEMENT FOR M865-YA
M8652	8/E	DOUBLE BUFFERED ASYNCH DATA CONTROL, QUAD X 8.5, KL8-FA, 110 BAUD
M8652-YA	8/E	M8652 150 BAUD, KL8-FB THRU -FG
M8652-YB	8/E	M8652 134.5 BAUD, KL8-FH
M8652-YC	8/E	M8652 (14.746 MHZ CRYSTAL), KL8-FJ
M8653	8/E	MODEM CONTROL, KL8-M
M8655	8/E	KL8-J, QUAD, 110 TO 9600 BAUD CONT, 20 MA & EIA
M8655-YA	TPL	M8655 W 4.435 MHZ XTAL FOR 1050 BUAD
M8655-YB	TPL	M8655 W 3.0735 MHZ XTAL FOR 66.6 BUAD
M8655-YC	TPL	M8655 W 2.621 MHZ XTAL FOR 56.86 BAUD
M866	8/E	EIA LEVEL CONVERTERS FOR M839 (DP8-E)
M868	8/E	DECTAPE CONTROL, SIMPLE, (TD8-EA)
M869	8/E	POINT PLOTTING SCOPE CONTROL SECTION 1, (VC8-E), QUAD X 8.5
M873-YA	11	UNIBUS RESTART W 128 WORD ROM, INCLUDES M792-YA, -YB, -YD, -YE, -YF, -YH; DD11, QUAD 8.5 (BM873-YA)
M873-YB	11	UNIBUS RESTART W 256 WORD ROM, (BM873-YB)
M873-YC	11	M873-YA + DU11 HANDLER, 256 WORDS
M873-YD	10	KL10 ROM BOOTSTRAP LOADER FOR DECTAPE
M873-YF	KL10	KL10 ROM BOOTSTRAP LOADER FOR FLOPPY DISK
M880	8/E	256 WORD ROM, 8-E, QUAD, (USES G643)(MR8-EA)
M882	8/E	REAL TIME CLOCK, LINE FREQUENCY (DK8-EA) 8.5, QUAD
M883	8/E	REAL TIME CLOCK, CRYSTAL, (DK8-EC) 8.5 QUAD, 3 FREQ CHOICE, REPLACED BY M8330
M8830	8/E	M883 WITH 4 FREQ CHOICE
M884	8/E	REDUNDANCY CHECK, CRC , LRC & VRC GEN & CHECK, KG8-E, QUAD X 8.5
M885	8/E	POINT PLOTTING SCOPE CONTROL SECTION 2, (VC8-E), QUAD X 8.5
M890	PERIPH	MOTION CONTROL FOR TU10, DOUBLE X 5
M8901	PERIPH	DATA SYNCHRONIZER, TU16, QUAD 8.5
M8902	PERIPH	TM02 TAPE CONTROL, PE, QUAD
M8903	PERIPH	TM02 TAPE CONTROL, COMMON MODE, HEX
M8904	PERIPH	TM02 TAPE CONTROL, NRZI, QUAD
M8905	PERIPH	TM02 MAINTENANCE REGISTER, QUAD
M8906	PERIPH	TM02 16-BIT FIDDLER, QUAD
M8909	PERIPH	TM02 MASS BUS INTERFACE, HEX
M891	PERIPH	CRC & WRITE GATING FOR TU10, DOUBLE
M8910	PERIPH	TU16 LOGIC & WRITE BOARD, HEX 8.5
M8911	PERIPH	TU16 SLAVE CLOCK, MOTION DELAY, DOUBLE 8.5
M892	PERIPH	GAP TIMING & READ PARITY, FOR TU10 MASTER
M8920	PERIPH	TS03 TO TU10 MASTER BUS INTERFACE, NON-STANDARD SIZE

MODULE	P/L	DESCRIPTION
M893	PERIPH	9 TRACK WRITE BUFFER FOR TU10, +LOGIC VERSION OF M763
M895	PERIPH	READ & WRITE TIMING FOR TU10 MASTER, DOUBLE
M896	PERIPH	CRCC CHECKER FOR TU10
M9005	10	MA20 TERMINATOR, SAME PINS AS M9006, DOUBLE 8.5
M9006	10	MA20 S BUS CABLE BOARD, 2 3M CABLES, 40 SIG, DOUBLE 8.5
M902	15	TERMINATOR, 18 100 OHM RESISTORS, M903 & M904 CONNECTIONS
M903	CAT	DUAL 1.25" 19 CONDUCTOR FLAT MYLAR CONNECTOR, 18 SIGNALS, 14 GND PINS, SINGLE 5
M904	CAT	COAX CONNECTOR, 2 9-CONDUCTOR COAXES, M903 PINS
M905	8	SPECIAL RIBBON CABLE CONNECTOR, DF32
M906	CAT	CABLE TERMINATOR, 220 OHMS TO +5V, CLAMPED TO 3V & GND, M903 PINS
M907	CAT	M906 WITH CLAMPS ONLY TO GND
M908	CAT	RIBBON CABLE CONNECTOR, 10 OHMS IN A2,B2,U1 & V1, ALL OTHERS STRAIGHT THRU
M910	CAT	TERMINATOR, 18 68 OHM RESISTORS TO +5V, FOR 15 I/O BUS, PROC END
M911	15	TERMINATOR, 18 100 OHM RESISTORS TO +5V, FOR 15 MEM BUS
M912	CAT	I/O BUS CARD, 36 PAIRS, M904 CONNECTIONS
M916	15	35 WIRES TO PDP15 CONSOLE WITH +5V CLAMP DIODES
M919	11	11 EXTERNAL BUS, 2 60-WIRE MYLAR, DOUBLE, 2.5, 56 SIGNALS, 14 GND PINS
M920	11	73 WIRE MYLAR, 11 INTERNAL BUS, 2 BOARDS 1" APART, M919 PINS, DOUBLE
M921	12	DEVICE CODE SELECT JUMPER MODULE, FOR 3 IOT'S
M930	11	TERMINATOR FOR PDP-11 BUS, (M919 PINS), 120 OHMS TO +3V, 100PF ON BF1 & BF2, DOUBLE 2 3/8
M9300	11	UNIBUS B TERMINATOR (M930 + NPR LOGIC)
M931	10	15 TERMINATORS, 2K TO +5V, CLAMPED AT +.75 & +3V, M903 PINS EXCEPT 9 INDICATOR OUTPUTS, K110
M935	8/E	VARIATION OF M920 FOR 8/E INTERNAL BUS, DOUBLE
M938	8	M903 CONNECTIONS WITH 18 3K LOADS CLAMPED TO -3V
M939	8	M906 WITH 1K RESISTORS INSTEAD OF 220 OHMS
M942	IPG	M930 ETCH, DIFFERENT RESISTORS, DD02
M944	IPG	BUS TERMINATOR FOR AM07
M947	10	INDICATOR DRIVER, 24 CKTS, CABLE OUT BACK
M948	10	24 RESISTORS TO CABLE, 4 RESISTORS TO COMMON POINT, COMPANION TO M947
M951	CSS	SELECTABLE CLAMPS MODULE, 12 CKTS, M906 PINS, (LOW VOLUME MODULE)
M952	10	27 LEVEL TERMINATORS, CLAMPS AT +.75 & 3.25V
M956	10	18 130 OHMS TO +3.0V, M903 PINS
M957	CAT	8.5" LONG M908, NO HANDLE, CABLE CLAMP LOCATION ON SIDES & END
M966	15	18 60-OHM RESISTORS TO +2.5V, M903 PINS
M966-YA	15	18 120-OHM RESISTORS TO +2.5V, M903 PINS
M968	11	JUMPER BOARD FOR DR11-B TESTING
M9680	11	M968 JUMPER BOARD FOR DR11-S TESTING WITH CKT FOR INCREASING DELAY BETWEEN CYCLES
M969	10	24 LEVEL TERMINATORS LIKE M952 + 1 THERMISTOR
M971	8/E	H854 MTD ON SINGLE X 8.5 CARD, ACCEPTS BC08R
M973	11	TTY MAT-N-LOCK, 5 PINS
M974	11	DM11 MAINTENANCE JUMPER BOARD
M976	11	M919 WITH SPLIT LUGS
M9760	11	8.5 M976 w FILTERS
M981	11	M920 INTERNAL BUS JUMPER WITH M930 TERMINATIONS, 2 BOARDS 1" APART
M984	11	M902 WITH 51 OHM RESISTORS
M988	10	2 BOARDS 0.5 TO 0.75 APART- AMP PINS & SOCKET MAKES STRETCHABLE JUMPEHS
M989	8/E	TERMINATOR FOR 8/F TO TU10-M CABLE
M997	PROE	H854 ON DOUBLE X 5 MODULE, ALL PINS BROUGHT OUT
M9970	11/05	M997, H854 FACING EDGE A, DOUBLE 8.5
R001	CAT	DIODE NETWORK, 7 DIODES, BOTH ENDS BROUGHT TO PINS
R002	CAT	DIODE NETWORK, 5 GROUPS OF 2 DIODES, CATHODES COMMON
R107	CAT	7 INVERTERS, 1 WITH EXPANSION NODE
R111	CAT	3 2-INPUT GATES, EXPANDABLE, OPEN COLLECTOR, 3 CLAMP LOAD RESISTORS
R113	CAT	5 2-INPUT GATES
R123	CAT	INPUT BUS GATE, 6 GATES, 1 INDEP INPUT, 1 PAIRED COMMON INPUT
R141	CAT	AND/NCR GATE, 7 SETS OF 2-INPUT AND GATES NORED TOGETHER
R151	CAT	BINARY-OCTAL DECODER, 6 INPUTS + AN ENABLE, 8 OUTPUTS
R201	CAT	RS FF WITH 3 SET & 2 RESET DCD GATES
R202	CAT	DUAL FF, DIRECT CLEAR, COMMON SET, 1 SET & 1 RESET DCD GATES EACH
R203	CAT	TRIPLE FF, DIRECT CLEAR, SET DCD GATES FOR EACH

MODULE	P/L	DESCRIPTION
R205	CAT	DUAL FF, COMMON DIRECT CLEAR, 3 DCD GATES EACH
R212	8	MQ (PDP8), 2 FF'S, SR, SL, READ-IN, CLEAR
R220	8	3 BIT SR, PARALLEL READ-IN, DIODES OUT FOR DETECTING ALL 0'S IN R111 NODE
R302	CAT	2 ONE-SHOTS
R303	CAT	INTEGRATING ONE-SHOT
R401	CAT	VARIABLE CLOCK, 30 CPS TO 2 MC
R405	CAT	CRYSTAL CLOCK, 5 KC TO 2 MC AVAILABLE
R601	CAT	PULSE AMPLIFIER, 6 DCD GATES, 100 OR 400 NSEC PULSES
R602	CAT	PULSE AMP, 2 CKTS, 2 DCD GATES & 1 DIODE INPUT EACH, 100 OR 400 NSEC PULSES FROM ONE
R603	CAT	PULSE AMP, 3 CKTS, 1 DCD GATE & 1 DIODE INPUT EACH
R613	8	R603 THAT CANNOT BE TRIGGERED FROM OUTPUT, WITH 5 MA LOADS
R663	10	R163 W DEC 6534C (6 2-INPUT NANDS, 1 INPUT/GATE + I INPUT/GATE PAIR, 2 MA FAN-IN)
S107	8	R107 WITH 5 MA CLAMP LOADS
S111	8	R111 WITH 5 MA CLAMP LOADS
S123	8	R123 WITH 2 MA FAN-IN
S151	8	R151 WITH 5 MA CLAMP LOADS
S181	8	DC CARRY CHAIN, 6 INTERCONNECTED DIODE GATES + 1 INVERTER
S202	8	R202 WITH 5 MA CLAMP LOADS
S203	8	R203 WITH 5 MA CLAMP LOADS
S205	8	R205 WITH 5 MA CLAMP LOADS
S206	15	DEC 4258, 12K, 82 PF, 10 MA CLAMP LOADS, 2FF
S602	8	R602 WITH 5 MA CLAMP LOADS
S603	8	R603 WITH 5 MA CLAMP LOADS
W002	CAT	15 2 MA CLAMPED LOADS, USES W005 BOARD
W005	CAT	15 CLAMPED LOADS, BOARD USED ON W002
W010		15 10 MA CLAMPED LOADS TO -15V
W021	CAT	SIGNAL CABLE CONN, 19 WIRE RIBBON, 9 HOT, 10 GND, SIG:D,E,H,K,M,P,S,T,V. GND:C,F,J,L,N,R,U
W022	CAT	W021 EXCEPT 9 100 OHM SHUNT TERMINATORS FROM EACH SIGNAL WIRE TO SHIELD
W023	CAT	18 LINE RIBBON CABLE CONNECTIONS, COMPONENT SPACE NEAR PINS A & B, OTHERS STRAIGHT THRU
W028	CAT	W021 WITH LUGS FOR SERIES OR SHUNT R OR D IN SIGNAL LEADS
W033	CAT	FLEXPRINT, W023 CONNECTIONS ON "A" SIDE, SIDE ENTRY CABLE
W034		FLEXPRINT W024
W040	CAT	2 SOLENOID DRIVERS, 2 INPUTS PLUS A NODE, 0.6 AMP MAX, SIM TO 4113+4681
W051	CAT	7 INDICATOR-SOLENOID DRIVERS, 100 MA -15V MAX
W077	8	10 OHMS A & B, OTHER STRAIGHT THRU, FLEX PRINT, CABLE AT END
W100	10	7 EMITTER FOLLOWERS, 6 IO BUS TO R SERIES GATES
W102	10	MEMORY BUS TRANSCEIVER, 1665 TYPE
W103	CAT	PDP8 DEVICE SELECTOR
W104	15	PDP9 IO BUS MULTIPLEXER CONTROL
W106	10	PRIORITY INTERRUPT GRANT
W107	10	I/O RECEIVER, PDP10, 7 CHANNELS
W110	10	W100 FOR MF10
W112	10	W102 WITH 70 TO 100 NS PULSE WIDTH
W122	10	PULSED BUS TRANSCEIVER, PIN COMPATIBLE WITH W102 & W112, +LOGIC IN, -BUS, -LOGIC OUT
W130	11	MAINTENANCE BOARD 1, 28 LIGHT DRIVERS, PLUGS INTO KA11
W131	11	MAINTENANCE BOARD 2, 28 LIGHTS, 4 SWITCHES, PLUGS INTO W130
W132	10	MEMORY BUS TRANSCEIVER, KI10, NEG BUS, 4 CKTS, SIM TO W102
W133	11	DOUBLE MAINTENANCE BOARD 1 (2 W130'S)
W300	8	TAPPED 800 NS DELAY LINES WITH 50 NS TAPS, 3 OUTPUT AMPLIFIERS, REPLACED BY W301
W301	10	TAPPED 800 NS DELAY LINE, PIN COMP WITH W300 BUT DIFFERENT INPUT LOADING AND IMPROVED MARGINS
W400	IPG	PADDLE BOARD FOR UDC (DD01) W ISOLATE PWR, USED ON W730-W733, W740-W743, M802-M807, REPLACED BY W406
W402	IPG	PADDLEBOARD FOR UDC (DD01), W COMMON PWR, USED ON W730-W733, W740-W743, M802-M807, REPLACED BY W406
W403	IPG	PADDLE BOARD FOR UDC (DD01), FOR RELAY DRIVER M684 TO M687, TO BE REPLACED BY W406
W406	IPG	PADDLE BOARD, W400, W402, W403 COMBINED
W410	IPG	PADDLE BOARD FOR UDC/DD01; AC INPUT CONDITIONING, QUAD 5, USED ON W740-W743
W501	CAT	SCHMITT TRIGGER, +/-10V IN, 0 & -3V OUT
W504	10	INITIAL TRANSIENT DETECTOR, A SCHMITT, 0 DELAY, 10 MS BLACKOUT
W505		LOW VOLTAGE DETECTOR, MEASURES +10 & -15V
W507	10	LOW VOLTAGE DETECTOR FOR ME10, MEASURES +5,+5,-15,-15, ALL REG,-15,+10 UNREG, DOUBLE
W509	10	3 PHASE AC LOW VOLTAGE DETECTOR

MODULE	P/L	DESCRIPTION
W510	CAT	POS LEVEL CONV, 3 CKTS, THRESHOLDS OF 0,+1, OR +2V, 0 & -3V OUT
W511	CAT	NEG LEVEL CONV, 2 CKTS, THRESHOLDS OF 0,-1,-2, OR -3V, 0 & -3V OUT
W512	CAT	POS LEVEL CONV, 7 CKTS, THRESHOLDS OF +1.6 OR 0.8V, FOR USE WITH TTL, 0 & -3V OUT
W513	PERIPH	NEG LEVEL CONV, 6 CKTS, USED IN TU55
W514	10	POS LEVEL CONV, 6 CKTS, 100 OHM INPUT
W519	10	POWER SEQUENCE & CROWBAR
W520	CAT	COMPARATOR, 3 DIFFERENTIAL CKTS, 100 MV RESOLUTION, LIKE 1501 LEVEL CONV
W521	10	+5V & -15V LOW VOLT DETECTOR, 16 +5V INPUTS, RS10, SINGLE X 5
W532	CAT	DUAL AC-COUPLED SENSE AMPLIFIER, USED ON PDP8-S
W533	CAT	DUAL RECTIFYING SLICER, WAS G803
W591	10	POS BUS TO DEC CONV, FOR MEMOREX, 0 TO +3V, 8 MC, 5 CHANNELS, PIN COMP WITH W592
W592	8	IBM 360 BUS TO DEC CONVERTER (NON-INVERTING)
W600	CAT	NEG LEVEL AMPLIFIER, LIKE 1667, 3 INVERTING CKTS
W601	CAT	POS LEVEL AMPLIFIER, 3 INVERTING CKTS
W602	CAT	BIPOLAR LEVEL AMPLIFIER, 3 CKTS, EIA LINE INTERFACER
W607	CAT	3 PULSE CONVERTERS, POS OR NEG 70 NS 2.5 V PULSE OUT
W612	8	DUAL PA, B602 PINS, 120 & 320 NSEC, DIODE OUTPUT FOR "OR" BUS
W612-YA	10	W612 LESS 2 OUTPUT DIODES
W640	CAT	3 PULSE CONV, POS OR NEG, 400 NSEC OR 1 USEC 2.5V PULSE OUT
W682	LDP	SCOPE INTENSIFIER, 0 TO +3V STEP, DELAY 50 TO 300 NS, PULSE WIDTH 400 NS (FOR VR12 & VR14)
W692	8	DEC TO IBM 360 BUS DRIVER
W693	10	DEC TO CTUL CONVERTER
W7040	11/45	3V ZENER & CAP TO GND TO GENERATE -12V FROM -15V
W705	CAT	+3.6V POWER SUPPLY, UP TO 1.5 AMPS, SINGLE HEIGHT, 1 1/2" THICK
W706	CAT	TELETYPE RECEIVER, 8 BITS, 11 UNIT CODE
W707	CAT	TELETYPE TRANSMITTER, 8 BIT, 2 UNIT STOP CODE ONLY
W708	CAT	TELETYPE COMMUNICATIONS ADAPTER
W726	PERIPH	4 DC & 3 DIFFERENTIATING SWITCH FILTERS FOR + LOGIC, IN TU10
W730	IPG	12 BIT CONTACT SENSE FOR DD01, 8.5, QUAD
W732	IPG	12 BIT CONTACT INTERRUPT FOR DD01, 8.5, QUAD
W733	IPG	16 BIT W732
W734	IPG	16-BIT GENERAL PURPOSE COUNTER FOR UDC, QUAD, 8.5
W740	IPG	12-BIT SOLID STATE CONTACT SENSE, QUAD X 8.5, USES PADDLE BOARD, UDC8
W741	IPG	16-BIT W740, UDC11, UDC15
W7410	IPG	16 BIT SOLID STATE DC CONTACT SENSE, W7430 ETCH, ICMD-C-IA, HEX
W7411	IPG	16 BIT SOLID STATE VOLTAGE SENSE, W7431 ETCH, IDC-ID, HEX
W742	IPG	12-BIT SOLID STATE CONTACT INTERRUPT, QUAD X 8.5, USES PADDLE BOARD, UDC8
W743	IPG	16-BIT W742, UDC11, UDC15
W7430	IPG	16 BIT SOLID STATE DC CONTACT INTERRUPT, W7430 ETCH, IDC-IB, HEX
W7431	IPG	16 BIT SOLID STATE VOLTAGE INTERRUPT, W7431 ETCH, IDC-IE, HEX
W7440	IPG	16 BIT GENERAL PURPOSE COUNTER, IDC-OC, HEX
W750	8	TELETYPE MULTIPLEXER
W802	CAT	RELAY MULTIPLEXER, 8 REED RELAYS
W808		2-2 FORM A, 1/8 AMP 250V
W816	CSS	UNIBUS GRANT RELAY MODULE, DOUBLE 5
W841	10	1/2 W851 FOR 9 COAX
W851	10	CONNECTOR, SIM TO W650, W851 IS CARD & COMPONENTS; BC10 IS ASSEMBLY & CABLE
W900	11/45	4 LAYER, DOUBLE X 8.5 EXTENDER BOARD
W930	11	SINGLE 36 PIN BLANK 8.5" MODULE
W961	15	2 16 PIN I/C MOUNT, A2 +5V PIN 16, C2&T1 GND PIN 8, 50-08912 (M245, M191, M238, M597, M697, M1700, M1701, M2004, M2500, M5007)
W961	CONT	
W962	12	24 PIN I/C MOUNT WITH A2 (PIN 24) +5V & C2,T1 (PIN 12) GND, BOARD 50-08908A, ALSO USED FOR M155, M159, M1713
W962	CONT	
W970	CAT	36 PINS, BARE BOARD, USED ON W971, SINGLE 5
W971	CAT	72 PINS, BARE BOARD, USES W970 BOARD, DOUBLE 5
W9800	11	HEX EXTENDER (NO FINGERS ON C, D, E) FOR CB11
W982	CAT	EXTENDER, SINGLE SIZE, 36 PINS
W984	CAT	8.5 X DOUBLE EXTENDER BOARD
W990	CAT	BLANK MODULE, SPLIT LUG FOR EACH PIN, 18 PINS

