U.S. PRICE & DELIVERY GUIDE

JULY 1988
All Prices In U.S. Dollars
All prices and model numbers are subject to change without notice.

DATA I/O
Corporation

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DATA I/O CORPORATION
U.S. PROGRAMMER PRICE LIST & DELIVERY GUIDE
Design Automation Division
July 1, 1988

MODEL NUMBER	DESCRIPTION	PRICE	DEL
29B PROGRAMMING SYSTEMS			
MEMORY SYSTEM:	(TP 3)		
29,U,2	29B/120V, 256Kx8 RAM + UniPak 2B + Full System Service Support Agreement (2 yr)	$ 6,450	4
29,U,2,P/?	29B/120V, 256Kx8 RAM + UniPak 2B + Full Sys Svc (2 yr) + PROMlink~	6,845	4
29,U	29B/120V, 256Kx8 RAM + UniPak 2B	5,100	4
29,U,P/?	29B/120V, 256Kx8 RAM + UniPak 2B + PROMlink~	5,495	4
29,R,U,2	29B/120V + 1MByte RAM + UniPak 2B + Full System Svc (2 yr)	7,000	4
29,R,U,2,P/?	29B/120V + 1MByte RAM + UniPak 2B + Full Sys Svc (2 yr) + PROMlink~	7,395	4
29,R,U	29B/120V + 1MByte RAM + UniPak 2B	5,650	4
29,R,U,P/?	29B/120V + 1MByte RAM + UniPak 2B + PROMlink~	6,045	4
GANG SYSTEM:	(TP 6)		
29,G,2	29B/120V, 256Kx8 RAM + GangPak + Full System Svc (2 yr)	5,575	4
29,G,2,P/?	29B/120V, 256Kx8 RAM + GangPak + Full Sys Svc (2 yr) + PROMlink~	5,970	4
29,G	29B/120V, 256Kx8 RAM + GangPak	5,100	4
29,G,P/?	29B/120V, 256Kx8 RAM + GangPak + PROMlink~	5,495	4
29,R,G,2	29B/120V + 1MByte RAM + GangPak + Full System Svc (2 yr)	6,125	4
29,R,G,2,P/?	29B/120V + 1MByte RAM + GangPak + Full Sys Svc (2 yr) + PROMlink~	6,520	4
29,R,G	29B/120V + 1MByte RAM + GangPak	5,650	4
29,R,G,P/?	29B/120V + 1MByte RAM + GangPak + PROMlink~	6,045	4
LOGIC SYSTEM:	(TP 4)		
29,L,2	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + Full System Svc (2 yr)	5,975	4
29,L,2,P/?	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + Full System Svc (2 yr) + PROMlink~	6,370	4
29,L	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A	5,100	4
29,L,P/?	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + PROMlink~	5,495	4
29,R,L,2	29B/120V, 1MByte RAM + LogicPak + 303A-011A + Full System Svc (2 yr)	6,525	4
29,R,L,2,P/?	29B/120V, 1MByte RAM + LogicPak + 303A-011A + Full System Svc (2 yr) + PROMlink~	6,920	4
29,R,L	29B/120V, 1MByte RAM + LogicPak + 303A-011A	5,650	4
29,R,L,P/?	29B/120V, 1MByte RAM + LogicPak + 303A-011A + PROMlink~	6,045	4

? Indicate PC Type (X=XT, A=AT, P=PS/2, N=NEC, T=TI)

~ PROMlink and ABEL are not included in the 1 or 2 year Full Service Support Agreement.

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MODEL NUMBER	DESCRIPTION	PRICE	DEL

29B PROGRAMMING SYSTEMS

UNIVERSAL SYSTEM: (TP 8)

MODEL NUMBER	DESCRIPTION	PRICE	DEL
29,L,U,2	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (2 yr)	$ 9,980	4
29,L,U,2,P/?	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (2 yr) + PROMlink~	10,375	4
29,L,U,1	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (1 yr)	8,495	4
29,L,U,1,P/?	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (1 yr) + PROMlink~	8,890	4
29,L,U	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + UniPak 2B	7,500	4
29,L,U,P/?	29B/120V, 256Kx8 RAM + LogicPak + 303A-011A + UniPak 2B + PROMlink~	7,895	4
29,R,L,U,2	29B/120V + 1MByte RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (2 yr)	10,530	4
29,R,L,U,2,P/?	29B/120V + 1MByte RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (2 yr) + PROMlink~	10,925	4
29,R,L,U,1	29B/120V + 1MByte RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (1 yr)	9,045	4
29,R,L,U,1,P/?	29B/120V + 1MByte RAM + LogicPak + 303A-011A + UniPak 2B + Full Service System Support Agreement (1 yr) + PROMlink~	9,440	4
29,R,L,U	29B/120V + 1MByte RAM + LogicPak + 303A-011A + UniPak 2B	8,050	4
29,R,L,U,P/?	29B/120V + 1MByte RAM + LogicPak + 303A-011A + UniPak 2B + PROMlink~	8,445	4

? Indicate PC Type (X=XT, A=AT, P=PS/2, N=NEC, T=TI)

~ PROMlink and ABEL are not included in the 1 or 2 year Full Service Support Agreement.

29B MAINFRAME

MODEL NUMBER	DESCRIPTION	PRICE	DEL
29B/L	29B/120V, 256Kx8 RAM	3,950	4
29B/L,R	29B/120V + 1MByte RAM	4,500	4
29BRAMKIT	29B 1MBit RAM (User Installable; Requires V05 or later firmware.)	875	4
29BUSERMAN	29B User Manual (when sold separately)	50	4
29BMAINTMAN	29B Maintenance Manual	85	4
29BSUPPORT1^	29B Full Service Support Agreement (1 yr)	450/yr	RO

For Handler Options, see Limited Demand section (page 8)

^ A 15% discount applies when purchased with the product. Must be sold through a service center if not purchased with the product. Product must be at current revision.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
29B PROGRAMMING SYSTEM			
<u>UNIPAK 2B</u>			
UPAK	UniPak 2B, Memory Programming Module	$ 2,495	4
UPAKUSERMAN	UniPak 2B User Manual (when sold separately)	50	4
UPAKMAINTMAN	UniPak 2B Maintenance Manual	85	4
UPAKSUPPORT1^	UniPak 2B Full Service Support Agreement (1 yr)	695/yr	RO
<u>UniPak 2B Pinout Cartridges</u>			
351B-066	24-pin (DIP); AMD 27S45	300	2
351B-067	22-pin (DIP); AMD 27S26	300	16
351B-068	24-pin (DIP); AMD 27S15	300	16
351B-070B	40-pin (DIP); 8741/41A/42/48/48H/49H	300	4
351B-071	40-pin (DIP); 8744/8751/51H/9761H	300	2
351B-072	40-pin (DIP); 8755A	300	2
351B-073	24-pin (DIP); AMD 27S65	300	16
351B-086 *	28-pin (DIP); Standard EPROM	300	2
351B-087	20-pin (PLCC); MMI 63S080/081	450	16
351B-088	20-pin (PLCC); MMI, TI	450	16
351B-089	20-pin (PLCC); MMI 63S280/281/480/481	450	16
351B-090	20-pin (PLCC); MMI, TI	450	16
351B-092	28-pin (PLCC); MMI 63D1641, 63DA1643/441/442/841	450	16
351B-093	28-pin (PLCC); MMI, TI	450	2
351B-094	22-pin (DIP); Fujitsu 7129/30/35/36	300	16
351B-095	40-pin (DIP); EPROM (1 Mbit)	450	5
351B-095P	44-pin (PLCC); Intel 27C210, AMD 27C1024	450	2
351B-096	24-pin (DIP); Fairchild ISOZ	450	2
351B-097	40-pin (DIP); Seeq 72720	450	16
351B-099	32-pin (PLCC); Intel	450	2
351B-101	28-pin (DIP); AMD 27S51	300	2
351B-102	40-pin (DIP); TI 7742	300	16
351B-103	40-pin (DIP); Intel 87C51/52BH/C252	450	2
351B-103P	44-pin (PLCC); Intel 87C51	450	2
351B-104	32-pin (DIP); EPROM (1MBit)	300	4
351B-107	28-pin (DIP); EPROM (1MBit)	300	2
351B-108	40-pin (DIP); Hitachi 63701	300	16
351B-109	40-pin (DIP); Hitachi 63705	300	16
351B-110	24-pin (DIP); MMI 5P16/6P16	300	2
351B-AMD	20-pin (DIP); AMD ECL PROMs	750	12
351B-Z8 +	40-pin (DIP); SGS Z86E11, Z86E21	450	8

* Included with the UniPak 2B at no charge.

+ Denotes DESIGN AUTOMATION DIVISION special. All DAD specials serviced out of Redmond, WA only, and are not included in Full Service Support Agreement. (Warranty: 90 days)

<u>GANGPAK</u>			
GPAK	GangPak, Gang/Set Programming Module	1,750	4
GPAKUSERMAN	GangPak User Manual (when sold separately)	50	4
GPAKMAINTMAN	GangPak Maintenance Manual	85	4
GPAKSUPPORT1^	GangPak Full Service Support Agreement (1 yr)	495/yr	RO

^ A 15% discount applies when purchased with the product. Must be sold through a service center if not purchased with the product. Product must be at current revision.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
29B PROGRAMMING SYSTEM			
<u>LOGICPAK</u>			
LPAK	LogicPak, Universal Logic Programming Module	$ 2,130	4
LPAKGDIP	LogicPak + 303A-011A (DIP) Adapter	2,495	4
LPAKUSERMAN	LogicPak User Manual (when sold separately)	50	4
LPAKMAINTMAN	LogicPak Maintenance Manual	85	4
<u>LogicPak P/T Adapters</u>			
303A-001	IFL	495	2
303A-007	Harris CMOS	495	2
303A-008A	MMI 32R16 (DIP/LCC)	1,875	16
303A-008B	MMI 32R16 (DIP/PLCC)	1,875	16
303A-010	Altera/Intel CMOS (40-pin DIP/44-pin PLCC)	800	6
303A-011A	CMOS/Bipolar (DIP) PLD	895	4
303A-011B	CMOS/Bipolar (PLCC) PLD	1,195	5
303A-012	National / Signetics AIM PLD	850	2
303A-ECLA +	MMI/TI ECL Adapter	1,295	12
303A-FAIM +	Fairchild AIM, VO4	1,095	4
FAIMUPD +	Fairchild AIM Logic update kit, VO4	195	2-4
303A-FPC +	AMD Fuse Programmable Controller (29PL141)	495	5
FPCUPD +	AMD FPC Logic Update Kit	195	2-4
303A-PLX +	PLX448 (DIP)	495	12

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  and are not included in Full Service Support Agreement. (Warranty: 90 days)

P/T Adapter Compatibility:

P/T Adapter	Mainframe Programmer	Min. RAM	Min. LogicPak Version
303A-001	19, 29A, 29B, 100A	8K	V04 w/950-1942-006 H/W
303A-007	19, 29A, 29B, 100A	8K	"
303A-008A/B	29A, 29B	64K	"
303A-010	29A, 29B	64K	"
303A-011A	19, 29A, 29B	16K	"
303A-011B	19, 29A, 29B	16K	"
303A-012	19, 29A, 29B	16K	"

MODEL NUMBER	DESCRIPTION	PRICE	DEL
UNISITE UNIVERSAL PROGRAMMER			
UNISITE 40			
US40/L	UniSite 40/120V + 2nd Drive + Full Svc (1 yr)	$11,495	6
US40/L,P/?	UniSite 40/120V + 2nd Drive + Full Svc (1 yr) + PROMlink~	11,890	6
US40/L,R	UniSite 40/120V + 2nd Drive + 1MB RAM + Full Svc (1 yr)	12,245	6
US40/L,R,P/?	UniSite 40/120V + 2nd Drive + 1MB RAM + Full Svc (yr) + PROMlink~	12,640	6
US40/L,R,C	UniSite 40/120V + 2nd Drive + 1MB RAM + ChipSite, + Full Svc (1 yr)	15,245	7
US40/L,R,C,P/?	UniSite 40/120V + 2nd Drive + 1MB RAM + ChipSite + Full Svc (1 yr) + PROMlink~	15,640	7
US40/L,S	UniSite 40/120V + 2nd Drive + SetSite, + Full Svc (1 yr)	14,345	8
US40/L,S,P/?	UniSite 40/120V + 2nd Drive + SetSite + Full Svc (1 yr) + PROMlink~	14,740	8
US40/L,R,S	UniSite 40/120V + 2nd Drive + SetSite + 1MB RAM + Full Svc (1 yr)	15,095	8
US40/L,R,S,P/?	UniSite 40/120V + 2nd Drive + SetSite + 1MB RAM + Full Svc (1 yr) + PROMlink~	15,490	8
US40SYST	UniSite 40/120V + 2nd Drive + ChipSite + Full Svc (1 yr) + Terminal	15,045	7
US40SYST,R	UniSite 40/120V + 2nd Drive + 1MB RAM + ChipSite + Full Svc (1 yr) + Terminal	15,795	7
US48/L,R,C	UniSite 48/120V + 2nd Drives + 2 additional pin-driver cards + 1MB RAM + ChipSite, + Full Svc (1 yr)	16,115	6
US48/L,R,C,P/?	UniSite 48/120V + 2nd Drives + 2 additional pin driver cards + 1MB RAM + ChipSite + PROMlink + Full Svc (1 yr)	16,510	6
US68/L,R,C	UniSite 68/120V + 2nd Drives + 7 additional pin driver cards, 1MB RAM + ChipSite + Full Svc (1 yr)	18,290	7
US68/L,R,C,P/?	UniSite 68/120V + 2nd Drives + 7 additional pin driver cards + 1MB RAM + ChipSite + Full Svc (1 yr) + PROMlink	18,685	7
US40USERMAN	UniSite 40 User Manual (when sold separately)	50	4
US40MAINTMAN	UniSite 40 Maintenance Manual	200	4
U40SUPPORT1	UniSite 40 Full Service Support Agreement (1 yr)	1175/yr	RO
WYSE30SUPPORT1	Repair Service Agreement, Wyse 30	250	RO

? Indicate PC Type (X=XT, A=AT, P=PS/2, N=NEC, T=TI)

~ PROMlink and terminal are not included in Full Service Agreement.

UniSite 40 Options & Accessories			
U40DRIVE	3 1/2" Disk Drive (User Installable)	295	6
U40RAM	128KB-1MB Upgrade (Service Center Installed)	750	RO
U40RAMUPGRADE	512KB-1MB Upgrade (Factory or Service Center Installed)	425	RO
U40CHIPSITE ~	ChipSite ~ (User Installable)	3,000	7
U40SETSITE **	Gang/Set Module (User Installed)	2,850	8
U40SITE48 ^	Site 48 PSM Module (User Installed)	695	4
U40PINDRIVER	Single Pin Driver board (User Installed)	435	6
U40CABLESET	UniSite 40 Cable set	60	4
U40DISKS	Box of 10 Blank Disks	100	4
U40CARRYCASE	Canvas carry case for UniSite 40	100	4

~ ChipSite requires additional pin driver boards when programming devices in 44/52/68 - pin packages.

** SetSite requires UniSite part number 901-0058-007 or later, and UniSite Ver. 2.0 or later operating system.

^ Site 48 requires 1 or 2 additional pin driver boards when programming devices in 44/48-pin packages. Req's UniSite ver. 2.1 or later.
For Handler Options, see Programming Systems Division section of this price list.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
MODEL 60A LOGIC PROGRAMMER			
<u>MODEL 60A</u>			
60A/L,PAL	60A/120V, 64Kx8 RAM + 360A-001 PAL Adapter	$ 2,495	7
60A/L,PAL,P/?	60A/120V, 64Kx8 RAM + 360A-001 PAL Adapter + PROMlink	2,890	7
60A/L,I20	60A/120V, 64Kx8 RAM + 360A-002 IFL 20/24-pin Adapter	2,495	7
60A/L,I20,P/?	60A/120V, 64Kx8 RAM + 360A-002 IFL 20/24-pin Adapter + PROMlink	2,890	7
60A/L,I28	60A/120V, 64Kx8 RAM + 360A-003 IFL 28-pin Adapter	2,495	7
60A/L,I28,P/?	60A/120V, 64Kx8 RAM + 360A-003 IFL 28-pin Adapter + PROMlink	2,890	7
60AUSERMAN	60A User Manual (when sold separately)	50	4
60ASUPPORT1^	Model 60A Full Service Support Agreement (1 yr)	695/yr	RO

? Indicate PC Type (X=XT, A=AT, P=PS/2, N=NEC, T=TI)

<u>Model 60A Options</u>			
360A-001	20/24-pin; PAL Socket Adapter	495	2
360A-002	20/24-pin; IFL Socket Adapter	495	2
360A-003	28-pin; IFL Socket Adapter	495	2
360A-004+	24-pin; Signetics 82S162/163 Socket Adapter	350	4
360A-005	40-PIN; EPROM Socket Adapter (includes 256Kx8 RAM upgrade;f version 11 firmware required)	895	3
60AUVLAMP	UV Lamp Assembly	300	4

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^ A 15% discount applies when purchased with the product. Must be sold through a service center if not purchased with the product. Product must be at current revision.

For Handler Options, see Programming Systems Division section of this price list.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
SERIES 22 PROM PROGRAMMER			
SERIES 22 PROGRAMMER			
S22/L	Series 22/120V, 64Kx8 RAM, MOS/CMOS	$ 1,995	4
S22/L,P/?	Series 22/120V, 64Kx8 RAM, MOS/CMOS + PROMlink	2,390	4
S22/L,FLK	Series 22/120V, 64Kx8 RAM, MOS/CMOS + Fuselink~	2,995	4
S22/L,FLK,P/?	Series 22/120V, 64Kx8 RAM, MOS/CMOS + Fuselink~ + PROMlink	3,390	4
S22/L,AIM	Series 22/120V, 64Kx8 RAM, MOS/CMOS + AIM	2,695	4
S22/L,AIM,P/?	Series 22/120V, 64Kx8 RAM, MOS/CMOS + AIM + PROMlink	3,090	4
S22/L,ALL	Series 22/120V, 64Kx8 RAM, MOS/CMOS + Fuselink~ + AIM	3,295	4
S22/L,ALL,P/?	Series 22/120V, 64Kx8 RAM, MOS/CMOS + Fuselink~ + AIM + PROMlink	3,690	4
S22USERMAN	Series 22 User Manual	50	4
S22SUPPORT1^	Series 22 Full Service Support Agreement (1 yr)	495/yr	RO

? Indicate PC Type (X=XT, A=AT, P=PS/2, N=NEC, T=TI)

~ Requires Fuselink Hardware Option 351A-064.

Series 22 Hardware Options			
S22UVLAMP	UV Lamp Assy	300	4
351A-064	20-pin Dual S/A (Fuselink programming)	200	2
351A-075B	40-pin S/A (Intel 8741+41A/42/48/48H/49H/55A)	200	2
351A-076B	40-pin S/A (Intel 8751/51H/44)	200	2
351A-084	16-pin S/A (TI 18S030)	200	2
351A-074	24-pin S/A (AMD/Fujitsu Registered PROM)	200	12
S22DUSTCVR	Removable Dust Cover	50	4

^ A 15% discount applies when purchased with the product. Must be sold through a service center if not
purchased with a product. Product must be at current revision.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
**PROMLINK **			
P/X	PROMlink Software for IBM PC or XT	$ 495	4
P/A	PROMlink Software for IBM AT	495	4
P/N	PROMlink Software for NEC 9801-F PC	495	4
P/P	PROMlink Software for IBM PS/2 Models	495	4
P/T	PROMlink Software for TI Professional PC	495	4
PUPDATE5	PROMlink Single Update (5.25" disks)	95	RO
PUPDATE3	PROMlink Single Update (3.5" disks)	95	RO
PSUBSCR5	PROMlink Update Service Agreement (1 yr) (5.25" disks)	195/yr	RO
PSUBSCR3	PROMlink Update Service Agreement (1 yr) (3.5" disks)	195/yr	RO

** PROMlink is discounted to $395 when sold bundled with any programmer.

Note: Manuals for all DESIGN AUTOMATION DIVISION Programmers, Paks, and Adapters, are $50 (unless otherwise noted)

PROGRAMMING ACCESSORIES

29B Handler Interface

Model	Description	Price	Del
29B/L,H	29B/120V, 256Kx8 RAM + Handler Interface	4,530	6
29B/L,R,H	29B/120V, 1MByte RAM + Handler Interface	5,750	6
29BTRC/L++	29B/120V, 256Kx8 RAM, TRC ~	4,000	6
29BTRC/L,H++	29B/120V, 256Kx8 RAM, TRC + Handler Interface ~	6,050	6

UniPak & UniPak 2 Socket Adapters

Model	Description	Price	Del
351A-065	20-pin; 4x4K	300	4
351A-066	24-pin; AMD 27S45	300	4
351A-067	22-pin; AMD 27S26/27, AMD 29774/29775, Nat 77/87SR27	300	4
351A-068	24-pin; AMD 27S15, Harris 7647R, Signetics 82S114/115	300	· 4
351A-070	40-pin; 8741/42/48/48H/49H	300	4
351A-071	40-pin; 8751/51H	300	4
351A-072	40-pin; 8755/55A	300	4
351A-073	24-pin; AMD, MMI	300	4
302A-001	S/A, Hitachi 63701XOC	350	4
302A-002	S/A, Hitachi 63705VOP/C	350	4
302A-003	S/A, Hitachi 63701VOC	350	4
302A-004	S/A, Hitachi 63701VOP	350	4
302A-005	S/A, Hitachi 637B01VOP	350	4
302A-006	S/A, Hitachi 637B01VOC	350	4
302A-007	S/A, Hitachi 637A01VOP	350	4
302A-008	S/A, Hitachi 637A01VOC	350	4
302A-009	S/A, Hitachi 63701YOP/YOC	350	4
302A-010	S/A, Hitachi 637A01YOP/YOC	350	4
302A-011	S/A, Hitachi 637B01YOP/YOC	350	4

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MODEL NUMBER	DESCRIPTION	PRICE	DEL
PROGRAMMING ACCESSORIES			
<u>Programming Paks</u>			
PPK/1702A	Programming Pak; 1702A PROM (PP 7)	$ 1,500	2
	[919-1183-1 (350A-008) Card Set + 715-1047 socket adapter]		
PPK/FCH-AIM	Programming Pak; Fairchild AIM (PP 3)	1,500	16
	[919-0043-003 (350A-004) Card Set + 715-1722-001		
	& 715-1722-002 & 715-1722-003 socket adapters]		
PPK/FCH-ECL	Programming Pak; Fairchild ECL (PP 9)	1,500	16
	[919-1507 (350A-016) Card Set + 715-1003-4 socket adapter]		
PPK/FCH-FPLA	Programming Pak; Fairchild FPLA (PP 5)	1,500	16
	[919-1549 (350A-018) Card Set + 715-1594-1 socket adapter]		
PPK/INTERSIL	Programming Pak; Intersil CMOS (PP 4)	1,500	16
	[919-1416-1 (350A-013) Card Set + 715-1450, 715-1706-001,		
	715-1449, & 715-1707-002 socket adapters]		
PPK/MOT-68701	Programming Pak; Motorola 68701 (PP 2)	1,500	3
	[919-0035-002 (350A-002) + 715-0036-001 socket adapter]		
PPK/MOT-68705~	Programming Pak; Motorola 68705 (PP 8)	1,500	6
	[919-0003-002 (350A-021) Card Set + one of the following		
	socket adapters: 351A-079, or 351A-080, or 351A-082]		
PPK/MOT-ECL	Programming Pak; Motorola ECL (PP 1)	1,500	2
	[919-0002-001 (350A-001) Card Set + 715-1003-4 socket adapter]		
PPK/MOT-MCM+	Programming Pak; Motorola MCM 10149L10 (PP10)	1,750	6
	[Programming Pak 10 + modified socket adapter]		
PPK/TI	Programming Pak; TI BiPolar (PP 6)	1,500	16
	[919-1063-3 (350A-022) Card Set + 715-1037 socket adapter]		
PPKSUPPORT1^	Programming Pak Full Service Agreement (1 yr)	325/yr	RO
350A-023-A+	Advanced Programming/Test Pak MMI PAL64R32, 84-pin LCC	5,950	4-6
350A-023-B+	Advanced Programming/Test Pak MMI PAL64R32, 88-pin PGA	5,950	4-6

+ Denotes DESIGN AUTOMATION DIVISION special. All DAD specials are serviced out of Redmond, WA only, and not included in the Full Service Support Agreement. (Warranty: 90 days)

~ Specify socket adapter when placing order.

^ A 15% discount applies when purchased with the product. Must be sold through a service center when not purchased with the product. Product must be at current revision.

MODEL NUMBER	DESCRIPTION	PRICE	DEL

PROGRAMMING ACCESSORIES

Programming Pak Card Set Socket Adapters *

351A-079	28-pin; 68705 HMOS (for PP8)	$ 300	12
351A-080	40-pin; 68705 HMOS (for PP8)	300	12
351A-082	40-pin; 68705 CMOS (for PP8)	300	12
715-0036-001	Socket Adapter, 40-pin (for PP2)	300	12
715-1003-4	Socket Adapter, 16-pin (for PP1 or PP9)	300	12
715-1037	Socket Adapter, 16-pin (for PP6)	300	12
715-1047	Socket Adapter, 24-pin (for PP7)	300	12
715-1449	Socket Adapter, 24-pin (for PP4)	300	12
715-1450	Socket Adapter, 24-pin (for PP4)	300	12
715-1594-1	Socket Adapter, 28-pin (for PP5)	300	12
715-1722-001	Socket Adapter, 24-pin (for PP3)	300	16
715-1722-002	Socket Adapter, 24-pin (for PP3)	300	16
715-1722-003	Socket Adapter, 24-pin (for PP3)	300	16
715-1706-001	Socket Adapter, 24-pin (for PP4)	300	16
715-1707-002	Socket Adapter, 24-pin (for PP4)	300	16

* For use with Motorola 68705 Card Set, Part # 919-0003-002

40-Pin Gang Module

308A	40-Pin Microcomputers; 8741/41A/42/48/48H/49H/55A	2,675	16
8751GANG+	40-Pin Microcomputers; 8751/51H	2,675	16
714-1860-001	308A Characterizer; 8741A	250	16
714-1860-002	308A Characterizer; 8748	250	16
714-1860-005	308A Characterizer; 8748H	250	16
714-1860-006	308A Characterizer; 8749H/8742	250	16
714-1861-001	308A Characterizer; 8755A	250	16
714-1861-002	308A Characterizer; 8755A-9	250	16
40GANGSUPPORT1 ^	40-Pin Gang Module Full Service Support Agreement (1 yr)	375/yr	

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^ A 15% discount applies when purchased with the product. Must be sold through a service center when not purchased with the product. Product must be at current revision.

MODEL NUMBER	DESCRIPTION	PRICE	DEL

PROGRAMMING ACCESSORIES

Gang Module Characterizers *

714-1564-001 +	Characterizer; 2764	$ 250	12
714-1566	Characterizer; 2708	250	12
714-1567	Characterizer; 2704	250	12
714-1568	Characterizer; 2716 (3V)	250	12
714-1569	Characterizer; 2516/2716 (1V)	250	12
714-1570	Characterizer; 2508/2758	250	12
714-1571	Characterizer; 2532	250	12
714-1572 +	Characterizer; 2732	250	12
714-1573 +	Characterizer; 2564	250	12
714-1574 +	Characterizer; 68764	250	12
714-1576 +	Characterizer; Intel 2732A	250	12
714-1713 +	Characterizer; MCM 2532	250	12
714-1862-001 +	Characterizer; Intel 27128	250	12

* For use with Gang Modules Part # 950-0074-002 and 950-0075-002 and prior revisions.

+ Requires an update of the Gang Module for proper operation.

Calibration Equipment

292A	Universal Calibrator	400	16
292A-004	Calibration Extender Fixture (100A, 29A, 29B, 19)	175	16
292A-006	Calibration Extender (120A/121A)	100	16
293A-004	LogicPak Service Cable	100	16
293A-006	LogicPak Extender Board	125	16

Unique Series 22 Options

22AWACS	Basic 22, 120V, RAM04, 22H20, 22S30, 22S59, 22S79	3,770	5
22AWACSSET	22AWACS, DSI 2400 Paper Tape Reader/Punch, and 970-0004-001 Manual	7,420	16
22H90	NAM Programming adapter (req's VO3 firmware & 64K RAM)	500	16

Miscellaneous Accessories

709-0059-001	Interface Cable; Intel	150	16
709-1012	Shield Cable; 26-pin	100	16
DSI2400	Serial Paper Tape Reader/Punch	3,650	12
PC CABLE	Interface Cable; 29/19/S22 to IBM PC	40	2

PLEASE CALL DESIGN AUTOMATION DIVISION SPECIALS ADMINISTRATION (REDMOND, WA, 1-800-426-1045, Ext. 514) FOR PRICING ON THE FOLLOWING OBSOLETE PRODUCTS: Model 20B Socket Adapters, Obsolete Card Sets & Socket Adapters 29B Specials (TRC, etc.) and other Gang Module Characterizers.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
FutureNet LOGIC DESIGN TOOLS			
ABEL-DOS-5	ABEL MSDOS/PCDOS (5.25" disks)	$ 1,745	2-4
ABEL-DOS-3	ABEL MSDOS/PCDOS (3.5" disks)	1,745	2-4
ABEL-DOS-5-B	ABEL Box of 10 (5.25" disks)	10,470	2-4
ABEL-DOS-3-B	ABEL Box of 10 (3.5" disks)	10,470	2-4
ABEL-APLO-C	ABEL Apollo Aegis 9.5 single user	2,995	2-4
ABEL-APLO-C-N	ABEL Apollo Aegis 9.5 additional user. Must be purchased with ABEL-APLO-C	1,800	2-4
ABEL SUN3-C	ABEL SUN-2 or SUN-3 OS 3.4 single user	2,995	2-4
ABEL SUN3-C-N	ABEL SUN-2 or SUN-3 OS 3.4 additional user. Must be purchased with ABEL-SUN3-C	1,800	2-4
ABEL-VVMS-M-15	ABEL VAX/VMS 4.6; (1-15 users)	4,995	2-4
ABEL VVMS-M-50	ABEL VAX/VMS 4.6; (16-50 users)	14,995	2-4
ABEL-VUNX-M-15	ABEL VAX/UNIX 4.2 BSD; (1-15 users)	4,995	2-4
ABEL-VUNX-M-50	ABEL VAX/UNIX 4.2 BSD; (16-50 users)	14,995	2-4
DABL-DOS-5	DASH to ABEL translator (5.25" disks)	800	2-4
PLDC-DOS-5	JEDEC PLD fusemap to CADAT PLD simulation model	800	204
PLDT-DOS-5	PLDtest MSDOS/PCDOS (5.25" disks)	1,995	2-4
PLDT-VUNX-M	PLDtest VAX UNIX BSD 4.2	3,495	2-4
PLDT-VVMS-M	PLDtest VAX VMS 3.X	3,495	2-4
ABEL-MANUAL	ABEL 3.0 user manual	100	2-4
PLD-MAN	PLDtest user manual	100	2-4
D-ABEL-MAN	DABL-DOS-5 user manual	100	2-4

Software Update Services

MODEL NUMBER	DESCRIPTION	PRICE	DEL
ABEL-DOS-5-UP	Software update service for ABEL-DOS-5 (5.25" disks)	350	RO
ABEL-DOS-3-UP	Software Update Service for ABEL-DOS-3 (3.5" disks)	350	RO
ABEL-DOS-5-UPB	ABEL MS-DOS "Box of 10" software update service (5.25" disks) for ABEL-DOS-5-B	1,225	RO
ABEL-DOS-3-UPB	ABEL MS-DOS "Box of 10" software update service (3.5" disks) for ABEL-DOS-3-B	1,225	RO
ABEL-VVMS-M-15U	Software Update Service for ABEL-VVMS-15 version	600	RO
ABEL-VVMS-M-50U	Software Update Service for ABEL-VVMS-50 version	1,800	RO
ABEL-VUNX-M-15U	Software Update Service for ABEL-VUNX-15 version	600	RO
ABEL-VUNX-M-50U	Software Update Service for ABEL-VUNX-50 version	1,800	RO
ABEL-SUN3-C-UP	Software Update Service for ABEL-SUN3-C	450	RO
ABEL-SUN3-C-UPN	Software Update Service for ABEL-SUN3-C-N	450	RO
ABEL-APLO-C-UP	Software Update Service for ABEL-APLO-C	450	RO
ABEL-APLO-C-UPN	Software Update Service for ABEL-APLO-C-N	450	RO
DABL-DOS-5-UP	Software update service for DABL-DOS-5	200	RO
PLDT-DOS-5-UP	Software update Service for PLDT-DOS-5	300	RO
PLDT-VVMS-M-UP	Software update Service for PLDT-VVMS-M	500	RO
PLDT-VUNX-M-UP	Software update Service for PLDT-VUNX-M	500	RO

Notes:

1. If ABEL-MSDOS and PLD-MSDOS are ordered together, there is a $500 discount.

2. All ABEL and PLDtest Products (Except "Box of Ten") Include a one year Software Update Service Agreement.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
60H, UNISITE, HANDLER PRODUCTION PROGRAMMING OPTIONS			
60H LPPS	60H, Logic Production Programming System includes 60H, Interface Hardware and Handler 300.	$10,875	S
60H*	60H Production Logic Programmer with interface for either a Data I/O Handler 300, or MCT/Exatron Handlers. Please specify voltage: 1 = 100VAC, 2 = 120VAC, 3 = 220VAC, 4 = 240VAC.	4,425	S
60H-HKIT	360H-DIO Conversion Kit and Handler 300	9,650	S
360H-DIO	60A to 60H Conversion Kit for Data I/O Handler 300	2,200	S
360H-MCT	60A to 60H Conversion Kit for MCT and Exatron Handler	2,200	S
360A-001	Programmable Array Logic - Programming Option	495	S
360A-002	Integrated Fuse Logic - Programming Option 20/24 pin IFL Adapter	495	S
360A-003	Integrated Fuse Logic - Programming Option 28 pin IFL Adapter	495	S
360A-004++	Signetics Device 82S162/163	350	4
360H-005+	Fairchild AIM interface, includes performance board and firmware.	595	8
360H-006+	Fairchild AIM interface for 60A-H CONVERSIONS; (for 60/A owners only) includes performance board, firmware, cable/adapter.	2,200	8
UniKit+ **	UniSite Handler interface kit with Handler Link Software.	4,250	6
Uni-HKIT	UniKit and Handler 300	11,200	6
HANDLER 300~	Handler for 300 mil. parts - Ambient Naked Dip Handler	7,450	S
60HSUPPORT1^	Model 60H Full Service Agreement (1 yr)	695/yr	RO

* Must specify handler interface type: Data I/O; 300 mil., Exatron, MCT; 300 or 600 mil.

** Must specify handler interface type: Data I/O; 300 mil., Exatron, MCT; 300 or 600 mil., requires PC to operate.

~ For use with UniSite / UniKit or 60H.

\+ Denotes PROGRAMMING SYSTEMS DIVISION Special. All PSD Specials are serviced out of Redmond, WA only, and not included in the Full Service Support Agreement. (Warranty: 90 days)

++ Denotes DESIGN AUTOMATION DIVISION Special. All DAD Specials are serviced out of Redmond, WA only, and not included in the Full Service Support Agreement. (Warranty: 90 days)

^ A 15% discount applies when purchased with the product. Must be sold through the service center if not purchased with the product. Product must be at current revision.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
156A IN-CIRCUIT PROGRAMMING SYSTEM			
156AXX	156A Mainframe	$57,865	16
156PXX	Power supplies (6 maximum)		
	MAIN BAY: AUX. BAY:		
	0-7V 50A (XX=1-12) (XX=51-62)	5,880	16
	0-7V 20A (XX=13-24) (XX=63-74)	4,725	16
	0-26V 5A (XX=25-36) (XX=75-86)	4,465	16
	0-26V 10A (XX=37-48) (XX=87-98)	4,725	16
156HXX	Auxiliary Equipment Bay	7,140	16
XX =	(01=115 VAC, 02=230 VAC, 03=100 VAC, 04=208 VAC)		
156H05	Operator Workstation	1,575	8
156H10	Printer	945	S
156I01	Interface Kit	2,890	S
981-0130-001	156A Technical Reference Manual	50	S
156ASUPPORT1^	156A Complete System Support; on-site inspection may be req'd.	6,995/yr^	RO
Spares Kits			
156H50	Spares Kit with positive power supply support	15,750	S
156H51	Spares Kit with negative power supply support	15,750	S

Contact your nearest sales representative for complete ordering information.

NOTE: Warranty is 90 days on 156A.

Custom In-Circuit Programmers			
CIP/PIP+	Custom In-Circuit Programmers (exclusive of non-recurring engineering charges)	12 - 17K	12
FIXTURE +	Custom fixtures for 156A	15 - 27K	12

+   Denotes PROGRAMMING SYSTEMS DIVISION special. All PSD specials are serviced out of Redmond, WA only, and are not included in the Service Support Agreement. (Warranty: 90 days)

^   Minimum price, service must quote if outside a 100 mile radius of the service center.

DATA I/O CORPORATION
U.S. PROGRAMMER PRICE LIST & DELIVERY GUIDE
Programming Systems Division
July 1, 1988

MODEL NUMBER	DESCRIPTION	PRICE	DEL
ENTRY LEVEL PROGRAMMERS			
201 EPROM PROGRAMMER			
201EP64L	201 EPROM Programmer, Single Socket, 64k x 8 RAM, Computer Remote Control, Low voltage	$ 1,295	S
201EP64L,P/?	201 EPROM Programmer + PROMlink	1,690	S
201MANUAL	201 Operator's Manual (when sold separately)	50	2
201SUPPORT1^	201 Full Service Agreement (1 yr)	325/yr	RO
201TRC *	201 Terminal Remote Control Software	50	S
280 SET PROGRAMMER			
280SP64L	280 8 Socket Gang, Set Programmer, 64k x 8 RAM, Computer Remote Control, Low voltage	1,995	S
280SP64L,P/?	280 Set Programmer + PROMlink	2,390	
280MANUAL	280 Operator's Manual (when sold separately)	50	2
280SUPPORT1^	280 Full Service Agreement (1 yr)	425/yr	RO
280TRC *	280 Terminal Remote Control Software	50	S

* Can only be purchased with a unit, must purchase TRC update if bought separately. (see Customer Support Price List)

MODEL NUMBER	DESCRIPTION	PRICE	DEL
288 MULTI PROGRAMMER			
BASE UNITS	(Customer must order at least one module to complete system)		
288L1	288 Base Unit, 512K bytes (4 Mbits) RAM, Low Voltage	1,900	S
288L1,P/?	288 Base Unit, 512K bytes (4 Mbits) RAM, + PROMlink	2,295	S
288L2	288 Base Unit, 2MB (16 Mbits) RAM, Low Voltage	2,900	S
288L2,P/?	288 Base Unit, 2MB RAM, + PROMlink	3,295	S
288MANUAL	288 Operator's Manual (when sold separately)	50	2
288SUPPORT1^	288 w/one Module Full Service Agreement (1 yr)	475/yr	RO

? Indicate PC Type (X=XT, A=AT, N=NEC, T=TI)

MODEL NUMBER	DESCRIPTION	PRICE	DEL
MODULES			
MOD32	8 32-Pin Socket Gang or Set Module, Supports 16K to 1Megabit EPROMS/EEPROMS	1,430	S
MOD40	8 40-Pin Socket Gang or Set Module Supports Megabit EPROMS/EEPROMS	1,430	S
MOD32PLCC +	8 32-Pin Socket PLCC Module for Intel compatible 32-pin PLCC's	2,195	8
MOD44EPLCC +	8 44-Pin Socket PLCC Module for Intel compatible 44-pin EPROM PLCC's	2,395	8
MOD87XX	8 40-pin Socket Gang Module, Supports 87XX Microcontrollers	1,795	4
MOD2868870X	8 28-pin Socket Gang Module, Supports 28-pin 6870X Microcontrollers	1,995	4
MOD4068870X	8 40-pin Socket Gang Module, Supports 40-pin 6870X Microcontrollers	1,995	4
OPTIONS			
MOD32-SKT	32-pin DIP replacement socket kit, 8 sockets	250	S
MOD40-SKT	40-pin DIP replacement socket kit, 8 sockets	250	S
MOD32PLCC-SKT	32-pin PLCC replacement socket kit, 8 sockets	450	4
MOD44PLCC-SKT	44-pin PLCC replacement socket kit, 8 sockets	600	4

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^ A 15% discount applies when purchased with the product. Must be sold through the service center if not purchased with the product. Product must be at current revision.

MODEL NUMBER	DESCRIPTION	PRICE	DEL
SERIES 1000 PARALLEL PROGRAMMERS			
CHOOSE AT LEAST ONE FROM THE FOLLOWING			
1010CML	1010 Duplicator Control Module	$ 3,150	S
1020CML	1020 Downloader Control Module	4,775	S
1030 CML	1030 VMP (virtual memory programmer) Control Module	7,775	S
CHOOSE ANY QUANTITY FROM THE FOLLOWING (MUST CHOOSE AT LEAST ONE)			
SR28	Add-on 28-pin PROM socket rail, 15 sockets	4,775	S
SR40	Add-on 40-pin PROM and Microcontroller rail, 10 sockets	6,175	S
SR32+	Add-on socket rail for Intel-compatible 32-pin PLCC's, 15 sockets	8,925	4-6
SR44+	Add-on socket rail for Intel-compatible 44-pin PLCC's, 10 sockets	8,925	4-6
NOTE:	If ordering only one rail with a control module, you must order a blank socket module.		
OPTIONS			
1000-DMODULE	S1000 Diagnostic Module	2,100	S
1000-BMODULE	S1000 Blank Socket Module	130	S
1000-RISER	S1000 Console Riser (Leveler)	55	S
1030-VPS**	S1030 Variable Parameter Programming Software	525	S
1020-VFP**	S1010 or S1020 Variable Parameter Programming Firmware	525	S
1000-RAILTOOL	S1000 Rail Tool	10~	S
1000-TMANUAL	S1000 Technical Reference Manual	120	S
SR28-SKT	SR28 replacement socket kit, 15 sockets	275	S
SR32-SKT	SR32 PLCC replacement socket kit, 15 sockets	800	4
SR40-SKT	SR40 replacement socket kit, 10 sockets	275	S
SR44-SKT	SR44 PLCC replacement socket kit, 10 sockets	800	4
RAMKIT	1020 RAM Board with 1MB memory, RS232C & IEEE-488 I/O ports, and serial cable	2,310	S
PCKIT	1030 PC RAM Board with 1MB memory, RS232C & IEEE-488 I/O ports, IEEE-488 cable, 1030 VMP system software	3,000	S
S1000SUPPORT1^	S1000 One Rail System Full Service Agreement (includes 1010 or 1020)	1395/yr	RO

** Requires factory approval for order placement. Contact Roger Huggins.

+ Denotes PROGRAMMING SYSTEMS DIVISION special. All PSD specials serviced out of Redmond, WA only, and not included in the Full Service Support Agreement. (Warranty: 90 days)

~ When 6 or more rail tools are purchased the cost is $5.00 per tool.

^ A 15% discount applies when purchased with the product. Must be sold through a service center if not purchased with the product. Product must be at current revision.

Series 1000 System Expansion

1020 = 1010 + RAMKIT

1030 = 1020 + PCKIT, req's PC

1030 = 1010 + RAMKIT + PCKIT, req's PC

PC is an IBM PC, IBM PC/XT or IBM PC/AT. Some IBM-compatibles may work.

Notes:

Prices and model numbers are subject to change without notice.

Lead times on price list are only approximate for quantities of 3 or less. Please contact a Data I/O sales office for further information.

DAD   Design Automation Division

PSD   Programming Systems Division

RO   Repair Order System

S   Standard Delivery, 4-6 weeks

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