

U.S. PRICE & DELIVERY GUIDE

JULY 1988

All Prices In U.S. Dollars

All prices and model numbers are subject to change without notice.

FutureNet
A Division of Data I/O Corporation

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
Prices Effective July 1, 1988

INDEX

PRODUCT	PAGE
CROSS TALK	3
DASH.....	1,2
DASH-ABEL.....	6
DASH-CADAT Plus.....	4
DASH-GATES.....	5
DASH Translators.....	5
DPLOT-xxxx.....	3
FutureDesigner	1
Manuals	5
OPUS Upgrades	5
PLD-CADAT.....	4
Semicustom Design Kits.....	5
Semicustom Development System.....	4
TRAIN-D4	3
TRAIN-FD	1
VFEATURE.....	3
VTERM	3

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
Prices Effective July 1, 1988

(this page intentionally left blank)

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
July 1, 1988

MODEL NUMBER	DESCRIPTION	PRICE	DEL
FUTUREDESIGNER			
FDES-OP2M-5	FutureDesigner Add-On Package for IBM XT or AT. Includes FutureDesigner Software (DASH and GATES), mouse, mouse interface board, 32032 w/2MB and FDSUPS. Req's 30M hard drive.	\$ 8,990	2-4
FDES-OP4M-5	FutureDesigner Add-On Package for IBM XT or AT. Includes FutureDesigner Software (DASH and GATES), mouse, mouse interface board, 32032 w/4MB and FDSUPS. Req's 30M hard drive.	10,690	2-4
DTFD-OP2M-5	FutureDesigner Add-On Package for DASH Schematic Designer System. Includes: GATES software, and 32032 w/2MB, and DGSUPS.	4,990	2-4
DTFD-OP4M-5	FutureDesigner Add-On Package for DASH Schematic Designer System. Includes: GATES software, and 32032 w/4MB, and DGSUPS.	6,690	2-4
FDSUPS	Software update service for FutureDesigner	900	RO
TRAIN-FD	Two day course with the electronic hardware engineer in mind. Major emphasis is functional design entry using FutureDesigner (entering the design using any combination of truth tables logic equations or state descriptions. <u>Topics covered:</u> FutureDesigner User Interface, Brief overview of DASH. Intro to DASH-GATES, System Operation, DASH-GATES Forms and Syntax. <u>Prerequisite:</u> DASH guided sessions in the User's Manual and/or successful completion of DASH training.	750	RO

Note: FutureDesigner Upgrade packages require DASH and DASH-GATES version 4.0 or later, and DOS 3.1 or later.

DASH SCHEMATIC DESIGN SYSTEMS

DASH-DOS-5	DASH for the IBM XT/AT, IBM PS/2 or Compaq computer running DOS, distributed on 5.25" diskettes. Includes DASH Hierarchical Schematic Editor Symbol Libraries, Pinlist, Netlist, Design Rule Check, DPLOT main driver program, DPLOT-DR-HP, DPLOT-DR-DMP. Also includes comprehensive user documentation and one year software updates. MOUSE NOT INCLUDED.	3,850	2-4
DASH-DOS-3	DASH for the IBM XT/AT, IBM PS/2 or Compaq computer running DOS, distributed on 3.5" diskettes. Includes DASH Hierarchical Schematic Editor, Symbol Libraries, Pinlist, Netlist, Design Rule Check, DPLOT main driver program, DPLOT-DR-HP, DPLOT-DR-DMP. Also includes comprehensive user documentation and one year software updates. MOUSE NOT INCLUDED.	3,850	2-4
DASH-DOS-5-B *	DASH "Box of Ten" multi-user package for ten IBM XT/AT, IBM PS/2 or Compaq computers running DOS, distributed on 5.25" diskettes. Includes ten (10) external security devices and one copy of the DASH Schematic Designer software and documentation. Requires a signed site license agreement. MOUSE NOT INCLUDED.	17,500	2-4
DASH-DOS-3-B *	DASH "Box of Ten" multi-user package for ten IBM XT/AT, IBM PS/2 or Compaq computers running DOS, distributed on 3.5" diskettes. Includes ten (10) external security devices and one copy of the DASH Schematic Designer software and documentation. Requires a signed site license agreement. MOUSE NOT INCLUDED.	17,500	2-4

* Does not include software update service. Please contact the service department in Redmond for site license update agreement and pricing.

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
July 1, 1988

MODEL NUMBER	DESCRIPTION	PRICE	DEL
DASH SCHEMATIC DESIGN SYSTEMS (cont.)			
DASH-SUN3-C	DASH Schematic Designer Add-On Package for SUN3 family workstations under SUN OS 3.2 or greater. Includes hierarchical editor, symbol libraries, DASH-Post (Pinlist, Netlist, Design Rule Check, and Parts List), DPLOT (DPLOT-DR-DMP, DPLOT-DR-HP, and manuals. Software is distributed on 1/4 inch cartridge tape. Software update service (DASH-SUN3-C-U) must be ordered separately, see below.	\$ 6,590	8
DASH-SUN3-C-S	Site license for DASH-SUN3-C. One set of software and manuals are included. Customer must specify number of users to be authorized. The quantity is for 11-25 users and the price listed is per each user. For 26 or more users, contact the product manager. Update service must be purchased separately, contact the service department in Redmond.	3,955	8
<u>SOFTWARE UPDATE SERVICE</u>			
DASH-DOS-5-UP	Renewal of DASH Software Update Service for users with 5.25" disk drives. Customer must currently have a valid support agreement otherwise order the appropriate update, Dx-D4CUP where x=customer's version.	600	2-4
DASH-DOS-3-UP	Renewal of DASH Software Update Service for users with 3.5" disk drives. Customer must currently have a valid support agreement otherwise order the appropriate update, Dx-D4CUP where x=customer's version.	600	2-4
DASH-DOS-5-UPB	Renewal of DASH Box of Ten Software Update Service for users with 5.25" disk drives.	2,500	RO
DASH-DOS-3-UPB	Renewal of DASH Box of Ten Software Update Service for users with 3.5" disk drives.	2,500	RO
DASH-SUN3-C-U	One year software update service for DASH-SUN-3-C.	990	RO
<u>DASH ACCESSORIES</u>			
DASH-MOUSE	Serial mouse for use with DASH Schematic Designer. Package includes Logitech 3 button serial mouse (with 9 pin connector), mouse driver software, user instructions and 9 to 25 pin adapter.	140	2-4
<u>DASH UPGRADES</u>			
D2-D4UP	Upgrade from D1/2 to latest version using FN graphics board (includes DSUPS; FND graphics board must be returned, if previous DASH product is not returned, an additional charge of \$3,390)	600	RO
D2-D4CUP	Upgrade from D1/2 to latest version (Hercules/color/Hi-Res) (includes DSUPS; if previous DASH product is not returned, an additional charge of \$3,090 will apply.)	900	RO
D3-D4CUP	Upgrade from D3C to latest version (includes DSUPS).	600	RO
D4-D4UP	Upgrade from D4 to latest version using FN graphics board (includes DSUPS)	600	RO
D4C-D4CUP	Upgrade from D4C to latest version using Hercules, color or Hi-Res (includes DSUPS)	600	RO
DASH-KEY	Upgrade from mouse card to DASH external software authorization key. Mouse card must be returned or an additional charge of \$3,500 will apply.	350	4-6

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
July 1, 1988

MODEL NUMBER	DESCRIPTION	PRICE	DEL
--------------	-------------	-------	-----

DASH SCHEMATIC DESIGN SYSTEMS (cont.)

TRAIN-D4	<p>Two-day course designed with the new DASH-4, version 4 user in mind. Major emphasis is schematic design entry and post processing using DASH-4, version 4.</p> <p><u>Topics:</u> Brief overview of DOS, FutureDesigner User Interface, Intro to DASH, Intermediate DASH commands, Library Commands, Creating New Symbols, Advanced DASH Commands, Hierarchical Design Concepts, Post Processing, Drawing Connectivity, Design Rule Check, Pinlist & Netlist.</p> <p><u>Recommended:</u> complete guided session included in the User's Manual and have a basic knowledge of the DOS operating system before this class.</p>	\$ 750	c/f
----------	--	--------	-----

DASH SOFTWARE PACKAGES

D-FLO	Flow Chart, Project Plan, Network Planner symbol library	100	2-4
D-LOM	List of materials program	200	2-4
VTERM	VTERM VT100 emulator software	200	2-4
CROSS T	CROSS TALK communications package	200	2-4
VFEATURE	V-FEATURE hard disk utility software	200	2-4

DASH-PLOT PRINTER AND PLOTTER SOFTWARE

DASH-PLOT*	Includes the dplot Main Program plus choice of one of the following Driver Programs. Additional drivers can be purchased separately at \$500 each.	900	2-4
Must first purchase DASH-PLOT in order to run the following driver programs:			
DPLOT-DR-AMT	For AMT office printers	500	2-4
DPLOT-DR-CAL907	For Calcomp 907 data format	500	2-4
DPLOT-DR-CAL960	For Calcomp 960 data format	500	2-4
DPLOT-DR-CIE	For CIE terminals CI-300, CI-600 & CI-3500	500	2-4
DPLOT-DR-DMP	For Houston Instrument DMP models 41, 42, 51 & 52	500	2-4
DPLOT-DR-EPSON	For Epson FX, MX and RX printers	500	2-4
DPLOT-DR-HCBS	For Host Computer Basic Software Interface	500	2-4
DPLOT-DR-HP	For Hewlett-Packard 7400 & 7500 series plotters	500	2-4
DPLOT-DR-HPLJ**	For Hewlett-Packard Laser Jet Plus and Series II Printers	500	2-4
DPLOT-DR-JDL	For JDL 750, 850 printers	500	2-4
DPLOT-DR-P	For Printronix P-300 and P-600 printers	500	2-4
DPLOT-DR-QMS	For QMS Lasergrafix 800, 1200 and 2400 printers	500	2-4

* Price includes choice of one Driver Program.

** Minimum of 512K RAM in the HP printer is recommended when used with D-PLOT.

Note: All DASH-PLOT packages require an 8087 or 80287 math coprocessor chip installed in the computer and DOS 3.1 or later.

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
July 1, 1988

MODEL NUMBER	DESCRIPTION	PRICE	DEL
SEMICUSTOM DEVELOPMENT SYSTEM			
SDS-AT	SDS software includes FutureDesigner, DASH-CADAT Plus one Semicustom Design Kit (see SDK's on page 5), a 32032 board and manuals. Requires an IBM AT w/512K and an 80MB HARD DISK. Supported on Micropolis or Mini-scribe 80MB hard disks. Includes 1yr software update service.	\$15,990	2-4
Note: The customer has a choice of semicustom design kits (SDK's). One SDK is included per SDS system at no charge. One ACCULIB kit may be substituted for the SDK at an additional charge of \$1,500. Please specify when ordering.			
GATES			
GATE-OP2M-5	GATES logic synthesis software, 32032 w/2MB and manuals. Requires an IBM AT or XT w/ 512K and an 30MB* hard disk. DASH Schematic Designer is required for schematic output. Micropolis or Mini-scribe hard disks only. Includes DGSUPS.	5,500	2-4
GATE-OP4M-5	GATES logic synthesis software, 32032 w/4MB and manuals. Requires an IBM AT or XT w/ 512K and an 30MB* hard disk. DASH Schematic Designer is required for schematic output. Micropolis or Mini-scribe hard disks only. Includes DGSUPS.	7,200	2-4
GATE-OPUS-5	GATES, same as above WITHOUT 32032 and mouse card.	4,500	2-4
DGSUPS	Software update service for GATES	500	RO
* An 80 MB hard disk is recommended.			
DASH CADAT Plus			
DC-PLUS	DASH-CADAT Plus for XT/AT; 32032 w/2M, DCPSUPS;	10,000	2-4
DC-PLUSUP	DASH-CADAT Plus for XT/AT, DCPSUPS; req's 32016/32 & 80M disk.	7,000	2-4
DC-PLUS-FSIM	DASH-FAULTSIM, DCPSUPS; requires DASH-CADAT Plus	5,000	2-4
DC-PLUS-SSI/MSI	DASH-CADAT Plus simulation model library; TTL/ECL/CMOS	950	2-4
CADAT-LINK	DASH to CADAT Pin List translator	800	2-4
D-DAS	DASH-CADAT Plus to Tektronix DAS 9100 Logic Analyzer	800	2-4
PLDC-DOS-5	JEDEC PLD fusemap to CADAT PLD simulation model	800	2-4
DCPSUPS	Software update service for DASH-CADAT Plus	1000	RO

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
July 1, 1988

MODEL NUMBER	DESCRIPTION	PRICE	DEL
SEMICUSTOM DESIGN KITS			
DSDK-GOULD	Semicustom Design Kit for Gould/AMI 2 micron Gate Arrays	\$ 1,500	2-4
DSDK-HITACHI	Semicustom Design Kit for Hitachi	1,500	2-4
ACCU-MOTOROLA	ACCULIB Semicustom Design Kit for Motorola HCA62A00	3,000	12
DSDK-NATIONAL	Semicustom Design Kit for National Std. Cells & GA	1,500	2-4
DASH TRANSLATORS			
DABL-DOS-5	DASH to ABEL translator	800	2-4
D-APPLICON	DASH to Applicon & Applicon "Bravo" net list translator	800	2-4
D-CADAM	DASH to CADAM net list translator	1,200	2-4
D-CBDS	DASH to IBM CBDS drawing translator	1,200	2-4
D-CV	DASH to CV net list & drawing translator	1,200	2-4
D-REDAC	DASH to Redac net list trans & Redac to DASH back annot.	1,200	2-4
D-SCICARDS	DASH to Scicards net list trans & SC to DASH back annot.	1,200	2-4
D-TEGAS	DASH to Tegas pin list translator	800	2-4
SPICE-LINK	DASH to SPICE pin list translator	600	2-4
CADAT-LINK	DASH to CADAT pin list translator	800	2-4
DASHABELS	Software update service for DASH-ABEL	200	RO
AWB-LINK	Dash to Analog Workbench interface	600	12
MANUALS			
D4-MAN	DASH4 user manual	200	2-4
DC-PLUS-MAN	DASH-CADAT Plus user manual	100	2-4
GATE-OPUS-D	GATES user documentation	100	2-4
OPUS UPGRADES			
CP-32032-2	Opus 32032 co-processor w/2M RAM	3,000	2-4
CP-32032-4	Opus 32032 co-processor w/4M RAM	3,200	2-4
HARDWARE SUPPORT AGREEMENTS			
DHSA	DASH hardware support agreement, covers mouse & board	250	RO
HSA32-2	32032 w/2M hardware support agreement	775	RO
HSA32-4	32032 w/4M hardware support agreement	1,175	RO

RO Ordered on the Repair Order System

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Division of Data I/O Corporation
July 1, 1988

<u>MODEL NUMBER</u>	<u>DESCRIPTION</u>	<u>PRICE</u>	<u>DEL</u>
---------------------	--------------------	--------------	------------

(this page intentionally left blank)

FUTURENET
U.S. PRICE LIST & DELIVERY GUIDE
A Data I/O Corporation
July 1, 1988

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.

RO Repair Order System: contact your local service center for product deliveries.
Allow 2-4 weeks for processing of annual update services and other agreements.

c/f Contact factory for delivery status.

S Standard Delivery, 4-6 weeks

Warranty: A limited warranty of 90 days on media and hardware.

(R) Data I/O, FutureNet, and PLDtest are registered trademarks of Data I/O Corporation.

(R) IBM is a registered trademark of International Business Machines Corporation.

(R) Intel is a registered trademark of Intel Corporation.

(R) Epson is a registered trademark of Shinshu Seiki Kabushiki Kaisha.

(R) Okidata is a registered trademark of Okidata Corporation.

(R) Printronix is a registered trademark of Printronix, Inc.

(R) AMT is a registered trademark of ESS Laboratory, Inc.

(R) QMS is a registered trademark of Quality Microsystems, Inc.

(R) Calcomp is a registered trademark of California Computer Products, Inc.

(R) HP is a registered trademark of Hewlett-Packard Company.

(R) Applicon is a registered trademark of Applicon, Inc.

(R) PAL is a registered trademark of Monolithic Memories, Inc.

TM Semicustom Development System, DASH, DASH-GATES, Personal Silicon Foundry, PSF, ABEL, DASH-ABEL, UniSite, SmartPort, UniPak 2B, GangPak, LogicPak, PROMlink, Virtual Memory Programmer, VMP, and UniKit are trademarks of Data I/O Corporation.

TM UNIX is a trademark of A T & T Technologies.

TM MS-DOS and PC-DOS are trademarks of Microsoft Corporation.

TM VMS and VAX are trademarks of Digital Equipment Corporation.

TM Apollo is a trademark of Apollo Computer, Inc.

TM CADAT is a trademark of HHB Systems, Inc.