MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MARK 4-TO-4E UPGRADE KITS*		,
CPK4000*	MARK 4-to-4E PIB Upgrade kit, includes 16-port MARK 4E PIB (without WD Controller board), 16-port I/O backpanel assembly (RJ45 type connectors), ECO #1910, PROM set and cables (ECO #1910 must be installed by POINT 4)	\$3,500	A
CPK01MB*	MARK 4-to-4E Memory Upgrade kit, includes MARK 4E CPU and 1MB memory boards	6,240	Α
CPK02MB*	MARK 4-to-4E Memory Upgrade kit, includes MARK 4E CPU and 2MB memory boards	7,530	Α
	* A credit of \$500, less applicable discount, is available upon return of each replaced CPU/Memory board pair and each PIB Mux board to POINT 4.		
	IN-FIELD STREAMER REPLACEMENT KIT	•	
CPK5150	150MB 1/4-inch Tape Streamer Upgrade Kit, inclu Tape Streamer, Formatter Cage and Mounting Hardware	des 1,500	Α

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MARK 6E (ESDI) TOWER STYLE SYSTEMS	3	
CPT1630	MARK 6E System, includes MARK 6 CPU, 2MB Extended Memory, 8-port DMA Mux, LOTUS 80 ESDI Disk Controller with QIC-02 Streamer Interface, 150MB 1/4-inch Tape Streamer, basic Winchester Disk Storage, 8-slot Chassis, Power Supply, integrated into Tower Cabinet, Extended IRIS License	\$29,900 0	A
	SMbasic FOR MARK 6E SYSTEMS		
SMB0600	SMbasic Interpreter and Utilities	Included	
	EXTENDED MEMORY OPTION FOR MARK 6E SYSTEMS		
CXF1400	4MB Extended Memory in lieu of basic 2MB (order only one per system)	5,040	Α
	ADDITIONAL EXTENDED MEMORY FOR MARK 6E SYSTEMS		
CXM1200	2MB Additional Extended Memory	7,680	Α
CXM1400	4MB Additional Extended Memory	12,720	A
	BACKUP/PROGRAM LOAD OPTION FOR MARK 6E SYSTEMS		
MTF2300	2.3GB Exabyte Helical Scan Tape Unit (includes LOTUS 750 Controller and MTCOPY Utility Software)	9,500	A
	BATTERY BACKUP UNIT		
BBU1210	Battery Backup Unit	1,200	A

MARKETING	
I.D.	DESCRIPTION

1,D,	DESCRIPTION	RETAIL FRICE	SCHEDULE
	MASS STORAGE CAPACITY OPTIONS FOR MARK 6E SYSTEMS (Select only one)		
MSF8700	170MB ESDI Basic Disk Capacity	N/C	
MSF8820	382MB ESDI Disk Capacity	\$2,300	Α
MSF8650	765MB ESDI Disk Capacity	6,200	Α
	ADDITIONAL MASS STORAGE FOR MARK 6E SYSTEMS		
MSS8700	170MB ESDI Mass Storage Subsystem	2,600	Α
MSS8820	382MB ESDI Mass Storage Subsystem	4,900	Α
MSS8650	765MB ESDI Mass Storage Subsystem	8,800	Α
PSS1600	Auxiliary Power Supply for 3rd and 4th Mass Storage Units	600	Α
	ADDITIONAL BACKUP/PROGRAM LOAD FOR MARK 6E SYSTEMS		
MTE2300	2.3GB Exabyte External Helical Scan Tape Subsystem in Desk-Top Enclosure with Device Cables (includes LOTUS 750 Controller and MTCOPY Utility Software)	9,995	A
MTE9200	92MB 1/2-inch Magnetic Tape Subsystem in Desk-Top enclosure with device cables (includes LOTUS 725 Controller and MTCOPY Utility Software)	10,700	A
	IN-FIELD UPGRADE KIT FOR MARK 6E SYSTEMS		
MTK2320	Exabyte Tower Upgrade Kit, includes 2.3GB Exabyte Helical Scan Tape Unit, LOTUS 750 Controller, Dand Power Cables, Mounting Brackets and Hardwa Bezel and MTCOPY Utility Software	ata	A

MARKETING		SUGGESTED	DISCOUNT
I.D.	DESCRIPTION	RETAIL PRICE	SCHEDULE
	MARK 12E (ESDI) TOWER STYLE SYSTEM	IS	
CPT1230	MARK 12E System, includes MARK 12 CPU, 2M Extended Memory, 8-port DMA Mux, LOTUS 80 ESDI Disk Controller with QIC-02 Streamer Tay Interface, 150MB 1/4-inch Tape Streamer, basic Winchester Disk Storage, 8-slot Chassis, Power Supply, integrated into Tower Cabinet, Extended IRIS License)0	A
	SMbasic FOR MARK 12E SYSTEMS		
SMB1200	SMbasic Interpreter and Utilities	Included	
	EXTENDED MEMORY OPTION FOR MARK 12E SYSTEMS		
CXF1400	4MB Extended Memory in lieu of basic 2MB (order only one per system)	5,040	Α
	ADDITIONAL EXTENDED MEMORY FOR MARK 12E SYSTEMS		
CXM1200	2MB Additional Extended Memory	7,680	Α
CXM1400	4MB Additional Extended Memory	12,720	Α
	BACKUP/PROGRAM LOAD OPTION FOR MARK 12E SYSTEMS		
MTF2300	2.3GB Exabyte Helical Scan Tape Unit (includes LOTUS 750 Controller and MTCOPY Utility Software)	9,500	Α
	BATTERY BACKUP UNIT		
BBU1210	Battery Backup Unit	1,200	Α

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MASS STORAGE CAPACITY OPTIONS FOR MARK 12E SYSTEMS (Select only one)		
MSF8700	170MB ESDI Basic Disk Capacity	N/C	
MSF8820	382MB ESDI Disk Capacity	\$2,300	Α
MSF8650	765MB ESDI Disk Capacity	6,200	Α
	ADDITIONAL MASS STORAGE FOR MARK 12E SYSTEMS		
MSS8700	170MB ESDI Mass Storage Subsystem	2,600	Α
MSS8820	382MB ESDI Mass Storage Subsystem	4,900	Α
MSS8650	765MB ESDI Mass Storage Subsystem	8,800	Α
PSS1600	Auxiliary Power Supply for 3rd and 4th Mass Storage Units	600	Α
	ADDITIONAL BACKUP/PROGRAM LOAD OPTIONS FOR MARK 12E SYSTEMS		
MTE2300	2.3GB Exabyte External Helical Scan Tape Subsystem in Desk-Top Enclosure with Device Cables (includes LOTUS 750 Controller and MTCOPY Utility Software)	9,995	Α
MTE9200	92MB 1/2-inch Magnetic Tape Subsystem in Desk-Top enclosure with device cables (includes LOTUS 725 Controller and MTCOPY Utility Software)	10,700	Α
	IN-FIELD UPGRADE KIT FOR MARK 12E SYSTEMS		
MTK2320	Exabyte Tower Upgrade Kit, includes 2.3GB Exab Helical Scan Tape Unit, LOTUS 750 Controller, D and Power Cables, Mounting Brackets and Hardwa Bezel and MTCOPY Utility Software	ata	A

MARKETING I.D. DESCRIPTION

SUGGESTED DISCOUNT RETAIL PRICE SCHEDULE

QUICK ORDERING GUIDE FOR ADDITIONAL PORTS (MARK 6E AND MARK 12E SYSTEMS)

NOTE: Assumes basic 8-port MUX (DCC5000) with on-board power (PSS5010) already ordered

This table is for use ONLY with systems configured with 8-pin telephone style Mighty-MUX connector/cable assemblies mounted in MARK 6E/12E Tower-style cabinet.

DCF1161	8 additional Ports (16 total)	\$1,925	Α
DCF1241	16 additional Ports (24 total)	2,875	A
DCF1321	24 additional Ports (32 total)	3,565	Α
DCF1401	32 additional Ports (40 total)	5,415	Α
DCF1481	40 additional Ports (48 total)	6,365	Α
DCF1561	48 additional Ports (56 total)	7,055	Α
DCF1641	56 additional Ports (64 total)	8,905	Α

NOTE: The total number of configurable ports is limited by the number of available chassis slots. Please refer to the chart on page 2-11 for the number of slots required for a given number of ports.

MIGHTY-MUX™ CONFIGURATION GUIDE (MARK 6E AND MARK 12E TOWER-STYLE SYSTEMS)

NUMBER	MUX	EX	PANS	ION	CABLE ASSMBLY	INTRBRD	CHASSIS
OF		D	CE5XX	XX	CBL5220	(Z) CABLE	SLOTS
PORTS	DCC5000	080	160	240	or CBL5221	CBL50XX	NEEDED
*8	1				1		1
16	1	1			2	CBL5021	2
24	1		1		3	"	2
32	1			1	4	"	2
40	1	1		1	5	CBL5022	3
48	1		1	1	6	"	3
56	1			2	7	"	3 .
64	1	1		2	8	CBL5023	4

^{*} Included with all Integrated Systems

				Mark Control
				Mg e e
				Marie Carlot

MARKETING I.D. DESCRIPTION

SUGGESTED DISCOUNT RETAIL PRICE SCHEDULE

CABINET-MOUNTED SYSTEMS

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MARK 6 CABINET-MOUNTED SYSTEMS		
CPX1600	MARK 6 System, includes MARK 6 CPU, 2MB Extended Memory, 8-port DMA Mux, LOTUS 73 SMD Disk Controller with QIC-02 Streamer Interface, 150MB 1/4-inch Tape Streamer, basic 8-inch Winchester Disk Storage, 8-slot Chassis and Power Supply, integrated into Lo-Boy Cabinet, Extended IRIS License		A
CPX1610*	MARK 6 System, includes MARK 6 CPU, 2MB Extended Memory, 8-port DMA Mux, LOTUS 740 HSMD Disk Controller with 1/2-inch Tape Interface, basic 8-inch Winchester Disk Storage, 8-slot Chassis and Power Supply, integrated into Lo-Boy Cabinet, Extended IRIS License	37,300	A
CPX1620*	MARK 6 System, includes MARK 6 CPU, 2MB Extended Memory, 8-port DMA Mux, LOTUS 745 HSMD Disk Controller, basic 8-inch Winchester Disk Storage, 8-slot Chassis and Power Supply, integrated into Lo-Boy Cabinet, Extended IRIS License	36,300	A
	* See Page 3-3 for Required Backup/Program Load Options	i	
	SMbasic FOR MARK 6 SYSTEMS		
SMB0600	SMbasic Interpreter and Utilities	Included	
	EXTENDED MEMORY OPTION FOR MARK 6 SYSTEMS		
CXF1400	4MB Extended Memory in lieu of basic 2MB (order only one per system)	\$5,040	Α
	ADDITIONAL EXTENDED MEMORY FOR MARK 6 SYSTEMS		
CXM1200	2MB Additional Extended Memory	7,680	Α
CXM1400	4MB Additional Extended Memory	12,720	A

MARKETING	
I.D.	DESCRIPTION

SMD/HSMD MASS STORAGE CAPACITY OPTIONS FOR MARK 6 SYSTEMS (Select only one)

Note: If configuring more than one 8-inch disk, or 1/2-inch tape, or an expansion chassis, or more than 64 ports with DB25-pin connectors, CAB5000, Hi-Boy Cabinet, is required

MSF8680 168MB SMD Basic Disk Capacity for CPX1600, N/C CPX1610, CPX1620 only

MSF8370* 337MB HSMD Basic Disk Capacity for CPX1610 \$1,600 A and CPX1620 only

MSF8240* 824MB HSMD Disk Capacity for CPX1610 and 7,500 A CPX1620 only

* Requires LOTUS 740 or LOTUS 745 HSMD Disk Controller

SMD/HSMD BACKUP/PROGRAM LOAD OPTIONS FOR MARK 6 SYSTEMS

NOTE: For CPX1610 and CPX1620 (Select only one)

1/4-INCH TAPE STREAMER

MTF5603 150MB 1/4-inch Tape Streamer (includes LOTUS 2,700 A 720 Controller)

HELICAL SCAN TAPE

MTF2300 2.3GB Exabyte Helical Scan Tape Unit (includes 9,500 A LOTUS 750 Controller, MTCOPY Utility Software)

1/2-INCH MAGNETIC TAPE

MTF5881 92MB 1/2-inch Magnetic Tape Subsystem for 9,400 A CPX1620 (includes LOTUS 725 Controller)

MTF5883 92MB 1/2-inch Magnetic Tape Subsystem for 7,400 A CPX1610

NOTE: Please refer to Subsystems section for additional peripherals

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MUX CONNECTOR OPTION		
DCF45RJ	RJ45 MUX connectors to be used in lieu of standard DB25-pin Mux connectors	N/C	
	BATTERY BACKUP AND CABINET OPTION	S	
BBU1200	Battery Backup Unit	\$1,200	Α
CAB5000	Hi-Boy Cabinet in lieu of Lo-Boy	1,500	Α
	IN-FIELD REPLACEMENT AND UPGRADE KITS FOR MARK 6 SYSTEMS		
	1/4-INCH TAPE STREAMER		
MTK1500	150MB 1/4-inch Tape Streamer Upgrade Kit, include Tape Streamer and Formatter Cage	des \$1,500	Α
MTK1510	150MB 1/4-inch Tape Streamer Upgrade Kit for SMD/HSMD RPS, includes Tape Streamer, Format Cage, Power and Data Cables, Mounting Brackets and Hardware and Bezel	1,700 ter	Α
•	HELICAL SCAN TAPE		
MTK2300	Exabyte Replacement Kit, includes 2.3GB Exabyte Helical Scan Tape Unit, LOTUS 750 Controller, Data Cable and MTCOPY Utility Software	9,500	Α
MTK2310	Exabyte Cabinet Upgrade Kit for SMD/HSMD RPS includes, 2.3GB Exabyte Helical Scan Tape Unit, LOTUS 750 Controller, Data and Power Cables, Mounting Brackets and Hardware, Bezel and MTCOPY Utility Software	5, 9,700	Α

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MARK 12 CABINET-MOUNTED SYSTEMS		
CPX1200	MARK 12 System, includes MARK 12 CPU, 2ME Extended Memory, 8-port DMA Mux, LOTUS 730 SMD Disk Controller with QIC-02 Streamer Interface, 150MB 1/4-inch Tape Streamer, basic Winchester Disk Storage, 8-slot Chassis and Powe Supply, integrated into Lo-Boy Cabinet, Extended IRIS License		A
CPX1210*	MARK 12 System, includes MARK 12 CPU, 2ME Extended Memory, 8-port DMA Mux, LOTUS 740 HSMD Disk Controller with 1/2-inch Tape Interfactoric Winchester Disk Storage, 8-slot Chassis and Power Supply, integrated into Lo-Boy Cabinet, Extended IRIS License)	A
CPX1220*	MARK 12 System, includes MARK 12 CPU, 2ME Extended Memory, 8-port DMA Mux, LOTUS 74: HSMD Disk Controller, basic Winchester Disk Storage, 8-slot Chassis and Power Supply, integrat into Lo-Boy Cabinet, Extended IRIS License	5	Α
	* See Page 3-6 for Required Backup/Program Load Options	d	
	SMbasic FOR MARK 12 SYSTEMS		
SMB1200	SMbasic Interpreter and Utilities	Included	
	EXTENDED MEMORY OPTION FOR MARK 12 SYSTEMS		
CXF1400	4MB Extended Memory in lieu of basic 2MB (order only one per system)	\$5,040	Α
	ADDITIONAL EXTENDED MEMORY FOR MARK 12 SYSTEMS		
CXM1200	2MB Additional Extended Memory	7,680	A
CXM1400	4MB Additional Extended Memory	12,720	Α

MARKETING	
I.D.	DESCRIPTION

SMD/HSMD MASS STORAGE CAPACITY OPTIONS FOR MARK 12 SYSTEMS (Select only one)

Note: If configuring more than one 8-inch disk, or 1/2-inch tape, or an expansion chassis, or more than 64 ports with DB25-pin connectors, CAB5000, Hi-Boy Cabinet, is required

MSF8680 168MB SMD Basic Disk Capacity for CPX1200, CPX1210, CPX1220 only

MSF8370* 337MB HSMD Basic Disk Capacity for CPX1210 1,600 A and CPX1220 only

MSF8240* 824MB HSMD Disk Capacity for CPX1210 and 7,500 A CPX1220 only

* Requires LOTUS 740 or LOTUS 745 HSMD Disk Controller

SMD/HSMD BACKUP/PROGRAM LOAD OPTIONS FOR MARK 12 SYSTEMS

NOTE: For CPX1210 and CPX1220 (Select only one)

1/4-INCH TAPE STREAMER

MTF5603 150MB 1/4-inch Tape Streamer (includes LOTUS 2,700 A 720 Controller)

HELICAL SCAN TAPE

MTF2300 2.3GB Exabyte Helical Scan Tape Unit (includes 9,500 A LOTUS 750 Controller and MTCOPY Utility Software)

1/2-INCH MAGNETIC TAPE

MTF5881 92MB 1/2-inch Magnetic Tape Subsystem for 9,400 A CPX1220 (includes LOTUS 725 Controller)

MTF5883 92MB 1/2-inch Magnetic Tape Subsystem for 7,400 A CPX1210

NOTE: Please refer to Subsystems section for additional peripherals

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MUX CONNECTOR OPTION		
DCF45RJ	RJ45 MUX connectors to be used in lieu of standa DB25-pin Mux connectors	rd N/C	
	BATTERY BACKUP AND CABINET OPTION	NS	
BBU1200	Battery Backup Unit	1,200	Α
CAB5000	Hi-Boy Cabinet in lieu of Lo-Boy	1,500	Α
	IN-FIELD REPLACEMENT AND UPGRADE KITS FOR MARK 12 SYSTEMS		
	1/4-INCH TAPE STREAMER		
MTK1500	150MB 1/4-inch Tape Streamer Upgrade Kit, inch Tape Streamer and Formatter Cage	udes \$1,500	Α
MTK1510	150MB 1/4-inch Tape Streamer Upgrade Kit, for SMD/HSMD RPS, includes Tape Streamer, Forma Cage, Power and Data Cables, Mounting Brackets and Hardware and Bezel	1,700 atter	Α
	HELICAL SCAN TAPE		
MTK2300	Exabyte Replacement Kit, includes 2.3GB Exabyte Helical Scan Tape Unit, LOTUS 750 Controller, Data Cable and MTCOPY Utility Software	e 9,500	Α
MTK2310	Exabyte Cabinet Upgrade Kit for SMD/HSMD RF includes, 2.3GB Exabyte Helical Scan Tape Unit, LOTUS 750 Controller, Data and Power Cables, Mounting Brackets and Hardware, Bezel and MTCOPY Utility Software	PS, 9,700	A

MARKETING
I.D. DESCRIPTION

SUGGESTED DISCOUNT RETAIL PRICE SCHEDULE

QUICK ORDERING GUIDE FOR ADDITIONAL PORTS (MARK 6 AND MARK 12 CABINET-MOUNTED SYSTEMS)

NOTE: Assumes basic 8-port MUX (DCC5000) with on-board power (PSS5010) already ordered

This table is for use **ONLY** with systems configured with **8-pin** telephone style Mighty-MUX connector/cable assemblies, in MARK 6 and MARK 12 Cabinet-Mounted Systems.

DCF1160	8 additional Ports (16 total)	\$1,925	Α
DCF1240	16 additional Ports (24 total)	2,875	Α
DCF1320	24 additional Ports (32 total)	3,565	Α
DCF1400	32 additional Ports (40 total)	5,415	Α
DCF1480	40 additional Ports (48 total)	6,365	Α
DCF1560	48 additional Ports (56 total)	7,055	Α
DCF1640	56 additional Ports (64 total)	8,905	Α
DCF1720	64 additional Ports (72 total)	9,855	Α
DCF1800	72 additional Ports (80 total)	10,545	Α
DCF1880	80 additional Ports (88 total)	12,395	Α
DCF1960	88 additional Ports (96 total)	13,345	Α
DCF1040	96 additional Ports (104 total)	14,035	Α
DCF1120	104 additional Ports (112 total)	15,885	Α
DCF1200	112 additional Ports (120 total)	16,835	Α
DCF1280	120 additional Ports (128 total)	17,525	Α

NOTE: The total number of configurable ports is limited by the number of available chassis slots. Please refer to the chart on page 3-9 for the number of slots required for a given number of ports.

MIGHTY-MUX CONFIGURATION GUIDE (MARK 6 AND MARK 12 CABINET-MOUNTED SYSTEMS)

NUMBER	MUX		PANS		PANEL	CABLE ASSMBLY	INTRBRD (Z) CABLE	CHASSIS SLOTS
OF		DO	CE5X	XX		CBL5210 OR	CABLE	NEEDED
PORTS	DCC5000	080	160	240	DJP5200	CBL5211	CBL50XX	
* 8	1				1	1		1
16	1	1			1	2	CBL5021	2
24	1		1		1	3	11	2
32	1			1	1	4	"	2
40	1	1		1	1	5	CBL5022	3
48	1		1	1	1	6	"	3
56	1			2	1	7	11	3
64	1	1		2	1	8	CBL5023	4
72	1		1	2	1	9	11	4
80	1			3	1	10	11	4
88	1	1		3	· 1	11	CBL5024	5
96	1		1	3	1	12	11	5
104	1			4	1	13	"	5
112	1	1		4	1	14	CBL5025	6
120	1		1	4	1	15	11	6
128	1			5	1	16	11	6
	1	L		L				

^{*} Included with all Integrated Systems

MARKETING		SUGGESTED	DISCOUNT
I.D.	DESCRIPTION	RETAIL PRICE	SCHEDULE
	MARK 12 CENTRAL SUBSYSTEMS (RACK-MOUNTED)		
CPS1200	MARK 12 Central Subsystem, includes MARK 12 CPU, 128KB Main Memory, 8-slot Chassis with Power Supply	\$21,600	Α
CPS1210	MARK 12 Central Subsystem, includes MARK 12 CPU, 128KB Main Memory, 8-port DMA Mux, LOTUS 710 SMD Disk Controller, 8-slot Chassis with Power Supply, IRIS License	30,530	Α
CPS1260	MARK 12 Central Subsystem, same as CPS1210, includes License for SMbasic	32,530	Α
CPS1220	MARK12 Central Subsystem, includes MARK 12 CPU, 128KB Main Memory, 8-port DMA Mux, LOTUS 730 SMD Disk Controller with QIC-02 Streamer Interface, 8-slot Chassis with Power Suppl IRIS License	31,030 ly,	Α
CPS1270	MARK 12 Central Subsystem, same as CPS1220, includes License for SMbasic	33,030	Α
CPS1230	MARK 12 Central Subsystem, includes MARK 12 CPU, 128KB Main Memory, 8-port DMA Mux, LOTUS 740 HSMD Disk Controller with 1/2-inch Tape Interface, 8-slot Chassis with Power Supply, IRIS License	33,330	Α
CPS1280	MARK 12 Central Subsystem, same as CPS1230, includes License for SMbasic	35,330	A
CPS1240	MARK 12 Central Subsystem, includes MARK 12 CPU, 128KB Main Memory, 8-port DMA Mux, LOTUS 745 HSMD Disk Controller, 8-slot Chassis with Power Supply, IRIS License	32,330	Α
CPS1290	MARK 12 Central Subsystem, same as CPS1240, includes License for SMbasic	34,330	Α
	MUX CONNECTOR OPTION		
DCF45RJ	RJ45 MUX Connectors to be used in lieu of standard DB25-pin Mux Connectors	N/C	
	BATTERY BACKUP UNIT		
BBU1200	Battery Backup Unit for MARK 12	1,200	Α
POINT 4 DA	TA CORPORATION		4-3

MARKETING	

I.D. **DESCRIPTION**

SUGGESTED DISCOUNT RETAIL PRICE SCHEDULE

SMD/HSMD RACK-MOUNTED PERIPHERAL **SUBSYSTEMS**

NOTE: The following Subsystems include 19-inch subsystem chassis, power supply, fans, cables, bezel and mounting hardware.

SMD/HSMD DISK

MSS8680	168MB SMD Mass Storage Subsystem	\$9,165	A
MSS8370*	337MB HSMD Mass Storage Subsystem	10,765	Α
MSS8240*	824MB HSMD Mass Storage Subsystem	16,665	Α
	* NOTE: Requires LOTUS 740 or LOTUS 745 HSMD Controller (MSC5140 or MSC5145)		
	TAPE OPTIONS FOR SMD/HSMD DISK SUBSYSTEMS		
	NOTE: Only one tape option may be selected with each RPS.		
MTF5150	150MB 1/4-inch Tape Streamer (Requires LOTUS 720 or LOTUS 730 QIC-02 Interface Tape Controller)	1,500	A
MTF2300	2.3GB Exabyte Helical Scan Tape Unit (includes LOTUS 750 Controller and MTCOPY Utility Software)	9,500	A

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	SMD/HSMD RACK-MOUNTED PERIPHERA SUBSYSTEMS	L	
	QIC-02 1/4-INCH TAPE STREAMER		
MTS8150	150MB 1/4-inch Tape Streamer Subsystem (Require LOTUS 720 or LOTUS 730 Controller)	res 4,180	Α
	HELICAL SCAN TAPE		
MTS8230	2.3GB Exabyte Helical Scan Tape Subsystem, includes Helical Scan Tape Unit, Power Supply, Fans, Bezel in Rack-Mounted Chassis with LOTUS 750 Controller and MTCOPY Utility Software	10,550	Α
	1/2-INCH MAGNETIC TAPE		
MTU5920	92MB 1/2-inch Magnetic Tape Subsystem, include Magnetic Tape Unit, Device Cables, Slide Rails, LOTUS 725 Controller and MTCOPY Utility Software	s 9,400	Α
MTU5880	92MB 1/2-inch Magnetic Tape Subsystem, include Magnetic Tape Unit, Device Cables, Slide Rails an MTCOPY Utility Software (Requires LOTUS 725 Controller or LOTUS 740 Controller)	s 7,400 d	Α

MARKETING		SUGGESTED	DISCOUNT
I.D.	DESCRIPTION	RETAIL PRICE	SCHEDULE
	EXTERNAL TAPE SUBSYSTEMS		
	QIC-02 1/4-INCH TAPE STREAMER		
MTE1500	150MB 1/4-inch External Tape Streamer Subsyster includes Tape Streamer Unit and Power Supply (Requires LOTUS 720, LOTUS 730 or LOTUS 80 QIC-02 Interface Tape Controller)		Α
	HELICAL SCAN TAPE		
MTE2300	2.3GB Exabyte External Helical Scan Tape Subsystem, includes Helical Scan Tape Unit and Power Supply in Desk-Top enclosure with Device Cables, LOTUS 750 Controller and MTCOPY Util Software	9,995 .ity	Α
	1/2-INCH MAGNETIC TAPE		
MTE9200	92MB 1/2-inch External Magnetic Tape Subsystem in Desk-Top enclosure with Device Cables, include MTCOPY Utility Software (requires LOTUS 725 of LOTUS 740 Controller)	es	A

MARKETING		SUGGESTED	DISCOUNT
<u> </u>	DESCRIPTION	RETAIL PRICE	SCHEDULE
	CASSETTE TAPE UNIT		
CTU0100	Cassette Tape Unit, Case and Cable	\$1,900	В
	VIDEO DISPLAY WORKSTATION		
WST0300	Full-featured, Conversational, Editing Alphanume Video Display Workstation with High-resolution 14-inch Amber Screen, 80/132 Column Display, 16/32 Programmable Function Keys	ric 780	В
WST0360	Wyse-60 Compatible Video Display Workstation High-resolution 14-inch Amber Screen, 80/132 Co Display, 16/32 Programmable Function Keys	with 780 Dlumn	В
	VIDEO DISPLAY WORKSTATION CABLES	}	
CBL0100	Workstation Cable, 25 ft., for use with MARK 2 and MARK 3	90	В
CBL0101	Workstation Cable, 25 ft., for use with MARK 4, 5, 6, 9 and MARK 12 Systems using DB25-pin and connectors	90	В
CBL0110	Workstation Cable, 25 ft., for use with MARK 2E 4E, 5, 6E, 6, 9, 12E and MARK 12 Systems using RJ45 connectors	, 90	В

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	CHASSIS AND POWER SUPPLIES		
CHS1200	8-slot Chassis, Fans, Mini Panel	\$2,980	Α
CHS1210	8-slot Expansion Chassis, Fans, Cables, for use with CHS1200 only	2,980	A
PSS1200	425 Watt Power Supply (8-slot chassis only)	2,870	A
CHS5500	7-slot Chassis, Fans, Mini Panel	1,560	Α
PSS5500	270 Watt Power Supply with Battery Backup (7-slot Chassis only)	2,010	Α
	BATTERY BACKUP UNITS		
BBU1200	Battery Backup Unit for use with 425 Watt Power Supply (PSS1200)	1,200	Α
BBU1220	-5v DC, +12v DC Power Option for use with BBU1200 (Required if Mark 5, Mark 9 CPU used with CHS1200)	390	A
CBL1210	LCM BBU Power Cable for four LCM boards, for use with BBU1200 only	50	Α
	EXTENDED MEMORY		
CXM1200	2MB Extended Memory for MARK 6E, 6, 12E and 12	7,680	Α
CXM1400	4MB Extended Memory for MARK 6E, 6, 12E and 12	12,720	Α
	LOTUS CACHE MEMORY		
CCM5200	1MB LOTUS Cache Memory	4,800	Α
CCM1200	2MB LOTUS Cache Memory	6,400	Α
CCM1400	4MB LOTUS Cache Memory	10,600	Α
PCM5200	External Power Supply for LOTUS Cache Memory (supports up to 3 LCM Boards of any capacity)	1,345	Α

MARKETING		SUGGESTED	DISCOUNT
I.D.	DESCRIPTION	RETAIL PRICE	SCHEDULE
	CONTROLLERS		
MSC5110	LOTUS 710 SMD/CMD/LMD Disk Controller, supports 4 Disk Drives, includes 1st Device Cable Set (specify disk type for head select PROM)	\$3,200	Α
MSC5120	LOTUS 720 1/4-inch Streamer Controller, QIC-02 Interface, includes Device Cable	1,200	Α
MSC5125	LOTUS 725 1/2-inch Magnetic Tape Controller, Pertec Interface, includes Device Cables	2,000	Α
MSC5130	LOTUS 730 Multifunction Controller, supports 4 SMD/CMD/LMD Interface Disk Drives plus QIC-02 Interface 1/4-inch Streamer Tape, includes Device Cables	3,700	Α
MSC5140*	LOTUS 740 Multifunction Controller, supports 4 HSMD/SMD Interface Disk Drives plus 1/2-inch Magnetic Tape Drive, includes Device Cables	6,000	Α
MSC5145*	LOTUS 745 HSMD/SMD Disk Controller, supports 4 Disk Drives, includes 1st Device Cable Set	5,000	Α
MSC5150	LOTUS 750 Exabyte Helical Scan Tape Controller includes Device Cables	r, 2,500	Α
MSC5200	LOTUS 800 ESDI Disk Controller, supports 4 ESDI Interface Disk Drives plus QIC-02 Interface 1/4-inch Streamer Tape, includes Device Cables	4,200	Α
	* CMD/LMD removable cartridge disk drives are not supported by the LOTUS 740/745 HSMD Controllers.		

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	SOFTWARE PRODUCTION FEES*		
QPR0100	Fee for Installation of Software Modules listed on Pages 6-5 & 6-6 on Packaged System Disk Driv	\$150	
QPR0200	Fee for Installation of Software Modules listed on Pages 6-5 & 6-6 on any of the media listed belo The charges for media are in addition to the Production Fee.	50 w.	
	MEDIA FEES*		
QDK0100	5 1/4-inch Diskette (48tpi)	10	
QDK0101	5 1/4-inch Diskette (96tpi)	10	
QCT0100	Cassette Tape	15	
QCT0200	45MB 1/4-inch Streamer Cartridge	40	
QCT0250	60MB/125MB 1/4-inch Streamer Cartridge	45	
QCT0270	150MB 1/4-inch Streamer Cartridge	50	
QCT0400	2.3GB Exabyte Tape Cartridge	40	
QMT0100	1/2-inch Magnetic Tape, 200 ft. reel (please specify 800bpi or 1600 bpi when ordering)	y 15	
QMT0101	1/2-inch Tape, 600 ft.	30	
QMT0102	1/2-inch Tape, 1,200 ft.	45	
QMT0103	1/2-inch Tape, 2,400 ft.	60	
	* These prices are not discountable.		

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PRODUCTS AND SERVICES

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I.D. DESCRIPTION

SUGGESTED DISCOUNT RETAIL PRICE SCHEDULE

PICO-N DEVICES*

Furnished with IRIS License but remains the property of POINT 4. Please refer to Page 9-2 for additional information.

QPN0010	PICO-N, #499, includes Documentation for R8.x of IRIS	N/C
QPN0020	PICO-N, #499, includes Documentation for R9.x of IRIS	N/C
QPN0030	PICO-N, R9, for use with MARK 2E only	N/C
QPN0100	PICO-N Customer Application Key	20/ea.

^{*} These prices are not discountable.

MARKETING

I.D. DESCRIPTION

SUGGESTED DISCOUNT RETAIL PRICE SCHEDULE

SOFTWARE

MARKETING		SUGGESTED	DISCOUNT
I.D.	DESCRIPTION	RETAIL PRICE	SCHEDULE
	SOFTWARE LICENSE FEES INITIAL SOFTWARE LICENSE FEE (For new Distributors and VARs)		
SYS2000	Includes License for the initial installation of IRIS TM Interactive Real-time Information System and all other Software Products separately listed in the Products and Services Catalog; one-year Software Support Subscription Service; five days of training; documentation and manuals.	\$6,000	N/A
	OPERATING SYSTEM SOFTWARE		
SYS2200	IRIS Operating System, Revision 9, includes Business BASIC, ABASIC and Utilities	3,000	Α
SYS2090	IRIS Operating System, Revision 9, same as SYS2200 but with Mapped IRIS Feature for MARK 2E, MARK 4E and MARK 9	3,500	Α
SYS2100	IRIS Operating System, Revision 9, same as SYS2200 but with Extended IRIS Feature for MARK 6E, 6, 12E and 12	4,500	Α
SYS0095	Mapped IRIS Feature for MARK 2E, MARK 4E and MARK 9, for use with SYS2200	500	Α
SYS2110	Extended IRIS Feature for MARK 6E, 6, 12E and 12, for use with SYS2200	1,500	Α
SYS1000	IRIS Operating System, Revision 8, includes Business BASIC, ABASIC and Utilities	3,000	Α
SYS1090	IRIS Operating System, Revision 8, same as SYS1000 but with Mapped IRIS Feature for MARK 2E, MARK 4E and MARK 9	3,500	Α
SYS0090	Mapped IRIS Feature for MARK 2E, MARK 4 and MARK 9, for use with SYS1000	500	Α
SYS5000	SMbasic Interpreter and Utilities, Revision 2	1,000	Α

I.D. DESCRIPTION

SOFTWARE MODULES

All of the following Software Modules on pages 6-5 and 6-6 are associated with a Production Fee (see page 6-7) and a fee for the Media on which they are installed (see page 6-7).

NOTE: Unless otherwise specified, all software products will be furnished in their latest revision.

NOTE: 60MB Streamer tapes will be the standard media used, unless otherwise specified.

IRIS

SYI9000	IRIS R9.x, for all systems, includes IRIS Operating System (LU0), Utilities (LU5)
SYI9500	IRIS 9.x and SMbasic 2.x for all systems, includes IRIS Operating System (LU0), SMbasic and Utilities (LU5)
SYI2920*	System Generator for MARK 2/2E/4/4E
SYI5920*	System Generator for MARK 5/6E/6/9/12E/12
SYI5820	IRIS R8.x, MARK 5/9/12
SYI3820	IRIS R8.x, MARK 3
SYI2820	IRIS R8.x, MARK 2/4
	DIAGNOSTICS AND UTILITIES
SYD0300	DISCUTILITY, MARK 3 (DU.M3)
SYD0200	DISCUTILITY, MARK 2/2E/4/4E (DU.WDI)
SYD0500	DISCUTILITY, MARK 5/6/9/12 (DU.M5)
SYC0820	CTUTILITY
SYB0100	Bootable Diagnostics
SYU0830	UTILITIES
	* IRIS Operating System and System Generator

^{*} IRIS Operating System and System Generator tapes must be the same Revision level

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PRODUCTS AND SERVICES

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	APPLICATIONS		
APC0830	PC CONNECTION		
AEO0830	ELECTRONIC OFFICE SYSTEM		
AEO0831	E.O.S. DICTIONARY		
AFO0830	FORCE V1.C		
	FIELD DEVELOPED SOFTWARE		
ASP0830	IRIS Spooler System, includes ASP0831, 32, 33, listed separately below		
ASP0831	IRIS Spooler		
ASP0832	IRIS Queue Manager		
ASP0833	IRIS Despooler		
APC1830	PC ANSWER Software		
AMT0830	MTCOPY Backup Utility		
	SOFTWARE UPGRADE KITS		
USY0100	Software Upgrade Kit for 150MB 1/4-inch Tape Streamer, includes DU.WDI, DU.LOTUS, DU.M3, STBOOTM3, STBOOTM5, FLBOOTM FLBOOTM3, on 60MB 1/4-inch Streamer Cartridge with Documentation	45 2,	N/A
UPC0100	PC ANSWER Software Upgrade Kit for Parts 2-4 includes PC ANSWER Diskette and User Manual		N/A



QUALITY INFORMATION

Vera

QUALITY INFORMATION BULLETIN, CUSTOMER SUPPORT

QIB.12

TO: Users of 1/4-Inch Tape Cartridge Drives

FROM: Quality Assurance

DATE: June 10, 1985

SUBJ: UNIVERSAL HEAD-CLEANING KIT FOR 1/4-INCH TAPE

CARTRIDGE DRIVES

The 1/4-inch tape cartridge drives (also known as streamer drives), which are being used as backup systems for Winchester/SMD-type disk systems, require periodic head cleaning to keep the read/write heads free of error-causing contamination.

Tape drive manufacturers recommend that drive heads, capstans, and sensors be cleaned:

- After 8 hours of use
- After using a new media tape
- When experiencing excessive errors
- When experiencing noisy operation

This will guard against loss of valuable data.

A universal head-cleaning kit will be made available by POINT 4 approximately July first. This kit is a compact, quick, effective, and easy-to-use self-maintenance device designed to maintain optimum performance for the majority of I/O mass storage systems that employ drives with either the 8-inch or 5-1/4-inch form factors.

Each cleaning kit contains the following:

977001, 36.00/28.80

- One cleaning cassette this can be used with either style
 of streamer and loads like a standard media cartridge,
 with the same form factor. The cassette has a convenient
 storage compartment for replacement cleaning pads, side
 turn key, and lever arm extender.
- Ten replacement cleaning pads the cleaning pads are replaceable, lint-free, high-density, porous, polyurethane, and nonabrasive. The pad captures the harmful contaminants and can be reused up to five times.

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- One 1 oz. bottle of cleaning solution this solution is recommended by the major drive manufacturers and has been approved for consumer use by OSHA. It is residue free and will not contaminate or harm adjacent components.
- One lever arm extender and side turn key the pad actuating lever and side turn key, whichever is accessible to the operator, moves the cleaning pad vertically across the surface of the head assembly and cleaning posts. The lever should be actuated through 10-15 cycles (which takes about 10 seconds) causing the pad to clean the head and posts.

Refill kits containing cleaning solution and pads will also be available July first.

977002 19.00/15.20

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MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	
	MARK 12 CABINET MOUNTEDSYSTEMS		
CPX1200	MARK 12 System, includes MARK 12 CPU 2MB Extended Memory, 8-port DMA Mux LOTUS 730 SMD Disk Controller wit QIC-02 Streamer Interface, 45M 1/4-inch Tape Streamer, basi Winchester Disk Storge, 8-slochassis and Power Supply, integrate into Lo-Boy Cabinet, IRIS license.	h B C	A
CPX1210	MARK 12 System, includes MARK 12 CPU 2MB Extended Memory, 8-port DMA Mux LOTUS 740 HSMD Disk Controller wit 1/2-inch Tape Interface, basis Winchester Disk Storage, 8-slo Chassis and Power Supply, integrate into Lo-Boy Cabinet, IRIS License.	h c t	A
CPX1220	MARK 12 System, includes MARK 12 CPU 2MB Extended Memory, 8-port DMA Mux LOTUS 745 HSMD Disk Controller basic Winchester Disk Storage, 8-slo Chassis and Power Supply, integrate into Lo-Boy Cabinet, IRIS License.	t	A
	EXTENDED MEMORY OPTIONS FOR MARK 12		
CXF1400	4MB Extended Memory in lieu of basi 2MB (only one may be ordered wit CPX12xx.)	•	Ά
CXM1200	2MB Extended Memory for MARK 12.	7,680	Α
CXM1400	4MB Extended Memory for MARK 12.	12,720	Ά
	MASS STORAGE CAPACITY OPTIONS FO MARK 12 SYSTEMS (Select only one.)	R	
MSF8840	84MB basic Disk Capacity for MARK 12	. N/C	A
MSF8680	168MB Disk Capacity for MARK 12.	1,500	A
MSF8370	337MB Disk Capacity for CPX1210 o CPX1220 only. (Requires LOTUS 740 o LOTUS 745 HSMD Disk Controller.)	r 3,100 r	Α
	For additional memory, ports, an disk capacity please refer to page 18-26.	đ s	

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BULLETIK

Number 58

October 5, 1987

SUBJECT: New MARK 2E Disk Drives and Prices

I am pleased to announce the addition of two new Winchester disk drives to the MARK 2E product line. Available for immediate delivery, the new 5 1/4-inch disks may be ordered in capacities of 53MBytes and 85MBytes. Manufactured by MiniScribe, they offer higher performance characteristics at a lower price than the current line of disks.

We have been informed by Fujitsu, the vendor of our current line of medium-capacity disks, that they have ceased manufacturing the 27MB device. Accordingly, POINT 4 will continue to accept orders for the 27MB disk only while supplies last. In its place we will offer the new 53MB disk: twice the capacity and three times the performance at the same price!

Please note that IRIS R9.1.1 or later and Discutility V2.16 or later are required to support the new disks. While from a hardware point of view the new disks are interchangeable with their counterparts in the current line, their different cylinder/head architecture has software implications. In order to back-up to streamer from one type of disk and restore to the other, CLEANUPX must be run prior to backing up. Please refer to Bulletin #57 (enclosed) for additional information about the new Winchester disk drives.

The new disk drives are being added to the MARK 2E line to complement the existing line of disks. You may take advantage of the higher performance specifications and lower prices of the new line or continue to order the current line of MARK 2E disks at the current prices. Attached is a table comparing MARK 2E system prices with both types of disk drives. As you can see, a savings of up to \$2,000 in suggested retail price is available with the new disks. The new, improved price/performance characteristics of the MARK 2E make it a formidable component in your POINT 4 "VARsenal for Success." One which will get the fourth quarter of 1987 off to a fast start.

Also attached is a new MARK 2E price list. Please update your POINT 4 Products and Services Catalog by replacing the old MARK 2E section with the new attachment. If you have any questions about the material in this Bulletin, please contact your Regional Sales Manager, or me.

Good luck and good selling,

Larry Baboid

Director of Marketing

LCB/th

MARK 2E PRICING COMPARISONS

NEW DISK	PRESENT DISK	CAUTNOC
		SAVINGS
MARK 2E 256KB 4 Ports 53MB Disk 60MB Streamer Mapped IRIS ===================================	MARK 2E 256KB 4 Ports 55MB Disk 60MB Streamer Mapped IRIS ===================================	\$2,000
MARK 2E 256KB 4 Ports 85MB Disk 60MB Streamer Mapped IRIS	MARK 2E 256KB 4 Ports 86MB Disk 60MB Streamer Mapped IRIS	·
\$13,395	========= \$14,395	\$1.000

MARKETING I.D.	DESCRIPTION	SUGGESTED RETAIL PRICE	DISCOUNT SCHEDULE
	MARK 2E SYSTEMS		
CPX2000	MARK 2E System, includes MARK 2E CPU, 256KB Main Memory, 4-port DMA Mux, ST506 Disk Controller with QIC-02 Streamer Interface and Diskette Interface, Basic Winchester Disk 'Storage, 60MB 1/4-inch Tape Streamer, integrated into Desk-top Enclosure, Mapped IRIS License.	\$11,395	A
	SMbasic FOR MARK 2E SYSTEMS		
SMB0250	SMbasic Interpreter and Utilities for use with MARK 2E Systems.	Included	
	MAIN MEMORY OPTIONS FOR MARK 2E		
CMM2000*	256KB Additional Memory to 512KB	1,500	Α
CMM2100*	512KB Additional Memory to 1MB (Requires CMM2000)	2,000	A
	MASS STORAGE CAPACITY OPTIONS FOR MARK 2E SYSTEMS (Select only one)		
MSF5530	53MB Basic Disk Capacity for MARK 2E Objection	be N/C	
MSF5550	55MB Disk Capacity for MARK 2E	2,000	Α
MSF5850	85MB Disk Capacity for MARK 2E Mark 1980	2,000	Α
MSF5860	86MB Disk Capacity for MARK 2E Fag.	3,000	Α
MSF5430	143MB Disk Capacity for MARK 2E Mark 2	6,000	Α
*	The first two memory configurations (256KB, 512KB) require a separate programmed array logic (PAL) chip to enable operation of the memory. The appropriate PAL is furnished by POINT 4 with the system, depending on its configuration. When adding 256KB to an installed MARK 2E a new PAL will be furnished with the order for the additional memory. Simply replace the old PAL on the mother board with the new and return the old PAL to POINT 4 within 60 days. If not received by POINT 4 within 60 days, an invoic for \$500 for the PAL will be issued.	ae	

MARKETING		SUGGESTED	DISCOUNT
I.D.	DESCRIPTION	RETAIL PRICE	SCHEDULE
	OTHER OPTIONAL EQUIPMENT FOR MARK 2E SYSTEMS		
MDD5020	1MB Diskette Drive	\$600	Α
DCF2080*	4 Additional DMA Mux Ports for MARK 2E (ports 5-8)	1,000	Α
DCF2120*	4 Additional DMA Mux Ports for MARK 2E (ports 9-12), requires DCF2080	1,000	Α
DCF2160*	4 Additional DMA Mux Ports for MARK 2E (ports 13-16), requires DCF2120	1,000	Α
DCF2050**	Binarysynchronous Port for MARK 2E, not available for use with SMbasic	400	Α

^{*} Each of the four possible configurations of ports for the MARK 2E (4, 8, 12, or 16) requires a separate PAL (programmed array logic) to enable operation of the port expansion board(s). One PAL is furnished with the system depending on its configuration. When increasing the number of ports in an installed MARK 2E a new PAL will be furnished with the order for the port expansion board(s). Simply replace the old PAL on the mother board with the new and return it to POINT 4 within 60 days. If not received by POINT 4 within 60 days, an invoice for \$500 for the PAL will be issued.

^{**} Software for the Bisync port is the "BISYNC" package, which may be licensed from and is supported by:
Starburst Data Systems, Inc.
Rte. 2, Box 362A
Vashon, WA 98070
(206)463-5456

PUBLICATIONS BULLETIN

September 10, 1987

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PUBLICATIONS BULLETIN

September 10, 1987

NEW PUBLICATIONS

Recent document releases, reissues, and updates include the following:

For MARK 5/6/9/12 Systems

- MARK 6/12 Self-Test/MANIP Manual, Rev A
 This proprietary document is intended for maintenance and
 service technicians of MARK 6 and MARK 12 systems. It
 contains operating instructions and listings for both
 Self-Test and MANIP.
- MIGHTY MUX 301/310 Diagnostic (V2.0) Document, Rev 02
 This document describes the tests in version 2.0 of the
 MIGHTY MUX diagnostic for use on systems that have the 310
 Mux and optional 301 expansion boards. This version of the
 diagnostic is required for use with a MARK 6 CPU. The
 diagnostic is currently available on a stand-alone streamer
 tape; it will be included in the IRIS 9.1C and 9.1.1
 templates which are scheduled for release in October.

For IRIS 9.1

Two quick reference guides are now available for IRIS 9.1:

- IRIS R9 BASIC Quick Reference Guide, Rev A
- IRIS R9 (IRIS) Quick Reference Guide, Rev A

For STYLUS 3.0

The STYLUS Quick Reference Card has been updated to reflect STYLUS 3.0.

These new releases may be ordered from your POINT 4 Sales Representative.

REMINDER

Completely revised or reissued manuals, quick reference guides or cards, and update packages for POINT 4 applications are not supplied with the IRIS Customer Support Bulletin. The attached reminder sheet lists recent documentation that you may want to order to keep your documentation up-to-date.

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POINT 4 Data Corporation

CURRENT DOCUMENTATION BY PRODUCT

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HARDWARE

CASSETTE TAPE UNIT

Cassette Tape Unit (CTU) Hardware Manual - Rev 05, 3/1/84
For CTUTILITY see System Software - IRIS R7.5 CTUTILITY Document or IRIS R8 Instln/Config Manual

LOTUS 710 DISC CONTROLLER

LOTUS 710/720/730 Controllers Manual - Rev 01, 1/15/85
LOTUS 700 Utilities & Diagnostics Manual - 1980
LOTUS 700 Diagnostics Listing - 7/29/81
(710 requires patch; see IRIS R8 Release Notes)
Hardware Information Tech Support Bulletins:
HICS.3 - Using CDC 9455 LARK Disc Drive with POINT 4 Disc
Controllers - 5/27/82
HICS.4 - Tech Tips on LOTUS 700/710 Head Select PROMs - 7/10/84
See also System Software - LOTUS DISCUTILITY documentation

LOTUS 720 1/4" STREAMING TAPE CONTROLLER

LOTUS 710/720/730 Controllers Manual - Rev 01, 01/15/85
LOTUS 720/730 Controller Diagnostics (V1.8) Document - Rev 07, 7/10/87
Hardware Information Tech Support Bulletins:
HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85
See also System Software - LOTUS DISCUTILITY documentation

LOTUS 725 1/2" STREAMING TAPE CONTROLLER

LOTUS 725/740/745 Disk/Tape Controller Diagnostics (V1.7) Document, Rev 06, 7/10/87

Hardware Information Tech Support Bulletins:

HITS.13 - Jumper/Switch Settings for LOTUS 725 1/2" Tape

Streamers - 7/10/86

LOTUS 730 MULTIFUNCTION CONTROLLER

LOTUS 710/720/730 Controllers Manual - Rev 01, 1/15/85
LOTUS 720/730 Controller Diagnostics (V1.8) Document - Rev 07,
7/10/87
Hardware Information Tech Support Bulletins:
HICS.10 - MARK 5 Chassis Front Bezel-to-LOTUS 730 Clearance - 1/10/85
HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85
See also System Software - LOTUS DISCUTILITY documentation

LOTUS 740 DISK/1/2" TAPE and 745 DISK CONTROLLER

Spectra Logic SPECTRA 320/310L Product Reference Manual (available with LOTUS 740/745 only)
LOTUS 725/740/745 Disk/Tape Controller Diagnostics (V1.7) Document, Rev 06, 7/10/87

LOTUS CACHE MEMORY

LOTUS Cache Memory Hardware Manual - Rev B, 9/14/83
LOTUS Cache Memory Software Manual (R7.5) - Rev B, 7/15/83
LCM Diagnostics (V2.2) Document - Rev 04, 2/10/87
Hardware Information Tech Support Bulletins:
HITS.15 - Installing and Configuring 2/4MB LCMs - 9/10/86
HITS.16 - Power Rating of POINT 4 Systems - 9/10/86
See also System Software - IRIS R8 LCM Installation Document

MARK 2/MARK 2E

MARK 2/3 Computer System Manual - Rev D, 12/1/84 MARK 2/3 Peripherals Interface Manual - Rev D, 12/1/84 MARK 2 Computer User Guide - Rev 02, 1/15/85 MARK 2E System Installation & Maintenance Manual - Rev 01, 4/27/87 MARK 2/2E/3/4/4E System Diagnostic (V1.9) Document - Rev 10, 6/10/87 MARK 2/2E/3/4/4E Mux Diagnostic (Vl.6) Document - Rev 08, 6/10/87 MARK 2/2E/4/4E Disk/Diskette/Tape Diagnostic (V1.12) Document -Rev 09, 6/10/87 MARK 2E/4/4E Map/Memory Diagnostic (Vl.6) Document - Rev 08, 6/10/87 MARK 2/4 DISCUTILITY - Rev 03, 2/10/87 Hardware Information Tech Support Bulletins: HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85 HITS.16 - Power Rating of POINT 4 Systems - 9/10/86 HITS.19 - RS232, Serial Interfaces, and New [MARK 2E] Modular Connectors - 1/10/87 See also System Software - IRIS R8 Release Notes

MARK 3

MARK 2/3 Computer System Manual - Rev D, 12/1/84 MARK 2/3 Peripherals Interface Manual - Rev D, 12/1/84 MARK 3 Tabletop w/Winchester User Guide - Rev A, 4/1/84 MARK 2/2E/3/4/4E System Diagnostic (Vl.9) Document - Rev 10, 6/10/87 MARK 2/2E/3/4/4E Mux Diagnostic (Vl.6) Document - Rev 08, 6/10/87 (requires new Mux cables) MARK 3 Tape Diagnostic (V3.1) Document - Rev 03, 6/10/87 MARK 3 Disk Diagnostic (V3.2) Document - Rev 03, 6/10/87 MARK 3 DISCUTILITY - partially documented in MARK 3T User Guide; see also System Software - IRIS R8 Release Notes and IRIS R7.5 Release Notes Unpacking/Installing the MARK 3 Lowboy Computer Tech Memo: System - Rev 03, 3/1/84 Hardware Information Tech Support Bulletins: - Index of HITS Bulletins - 9/10/86 HITS.0 HICS.1 MARK 3 CPU Upgradability for 64KB Memory Expansion Board - 5/20/82 HICS.2 - MARK 3 PIB Upgradability for Port Expansion Board -5/20/82 HICS.3 - Using CDC 9455 LARK Disc Drive with POINT 4 Controllers - 5/27/82 HICS.5 - Upgrading MARK 3 to 128KB Memory - 8/26/82 - Upgrading MARK 3 to Seven Ports - 8/28/82 HICS.6 HICS.7 - MARK 3 PROM Selection Guide - 11/10/85 HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85 HITS.16 - Power Rating of POINT 4 Systems - 9/10/86

MARK 4/MARK 4E

MARK 4/4E System Installation & Maintenance Manual - Rev A, 6/12/87
MARK 2/4E/3/4/4E System Diagnostic (V1.9) Document - Rev 10, 6/10/87
MARK 2/2E/3/4/4E Mux Diagnostic (V1.6) Document - Rev 08, 6/10/87
MARK 2/2E/4/4E Disk/Diskette/Tape Diagnostic (V1.12) Document Rev 09, 6/10/87
MARK 2E/4/4E Map/Memory Diagnostic (V1.6) Document - Rev 08, 6/10/87
Tech Memo: MARK 2/4 DISCUTILITY - Rev 03, 2/10/87
Hardware Information Tech Support Bulletins:
HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85
HITS.12 - Tech Notes on the MARK 4, 9/10/86
HITS.16 - Power Rating of POINT 4 Systems - 9/10/86
HITS.17 - MARK 4 Power Supplies - 9/10/86
HITS.19 - RS232, Serial Interfaces, and New [MARK 4E] Modular Connectors - 1/10/87
See also System Software - IRIS R8 Release Notes

MARK 5

MARK 5/9 Computer Reference Manual - Rev 01, 7/22/86 POINT 4 Diagnostics Manual - old format, 12/16/79 Tech Memo: MARK 5/9 Lowboy Computer System Unpacking and Installation, Rev 07, 12/10/84 Tech Memo: MARK 5/9 Highboy Computer System Unpacking and Installation, Rev 05, 12/10/84 Hardware Information Tech Support Bulletins: HICS.9 - MARK 5/8/9/12 Voltages and Currents - 11/10/86 HICS.10 - MARK 5 Chassis Front Bezel-to-LOTUS 730 Clearance - 1/10/85 HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85 HITS.13 - Jumper/Switch Settings for LOTUS 725 1/2" Tape Streamers - 7/10/86 HITS.15 - Installing and Configuring 2/4MB LCMs - 9/10/86 HITS.16 - Power Rating of POINT 4 Systems - 9/10/86 Card: POINT 4 Quick Reference - 5/83 Card: Unpacking and Installing the POINT 4 (MARK 5), 12/83 Card: Virtual Front Panel

MARK 5 WITH EIS OPTION (replaces MARK 8)

MARK 5/9 Computer Reference Manual - Rev 01, 7/22/86
MARK 8 Verifier/Diagnostics V1.0 - prelim doc, 11/17/82
See also MARK 5 list for applicable tech memos, bulletins, and cards

^{*}In revision

MARK 6

MARK 6 System Installation/Maintenance Manual - Rev 01, 2/16/87
MARK 6/12 Self-Test/MANIP Manual - Rev A, 8/31/87
MARK 6/12 Data Channel Map/Memory Diagnostic (V1.6) Document Rev 05, 7/10/87
Hardware Information Tech Support Bulletins:
HICS.9 - MARK 5/8/9/12 Voltages and Currents - 11/10/86
HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85
HITS.15 - Installing and Configuring 2/4MB LCMs - 9/10/86
HITS.18 - MARK 12 Power Supply and Chassis, 11/10/86
HITS.19 - RS232 Serial Interfaces, and New Modular Connectors,
3/10/87
HITS.20 - Installing/Configuring 2/4MB Extended Memory, 6/9/87
HITS.21 - MARK 12 CPU and Firmware, 6/10/87
Tech Memo: Installing the 128-Port Panel - 6/25/87
See also System Software - IRIS R8 Release Notes

MARK 9

MARK 5/9 Computer Reference Manual - Rev 01, 7/22/86 MARK 9 CPU Diagnostics (V2.1) Document - Rev 01, 8/10/85 Tech Memo: MARK 5/9 Highboy Computer System Unpacking and Installation, Rev 05, 12/10/84 MARK 5/9 Lowboy Computer System Unpacking and Tech Memo: Installation, Rev 07, 12/10/84 Hardware Information Tech Support Bulletins: HICS.8 - MARK 9 System Notes - 6/10/85 HICS.9 - MARK 5/8/9/12 Voltages and Currents - 11/10/86 HICS.10 - MARK 5 Chassis Front Bezel-to-LOTUS 730 Clearance - 1/10/85 HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85 HITS.13 - Jumper/Switch Settings for LOTUS 725 1/2" Tape Streamers - 7/10/86 HITS.14 - Jumper Installation for MARK 9 With/Without Battery Backup - 7/10/86HITS.15 - Installing and Configuring 2/4MB LCMs - 9/10/86 HITS.16 - Power Rating of POINT 4 Systems - 9/10/86 Card: Virtual Front Panel See also System Software - IRIS R8 Release Notes

MARK 12

MARK 12 Installation/Technical Document, 6/10/86 MARK 6/12 Self-Test/MANIP Manual - Rev A, 8/31/87 MARK 6/12 Data Channel Map/Memory Diagnostic (V1.6) Document -Rev 05, 7/10/87 Hardware Information Tech Support Bulletins: HICS.9 - MARK 5/8/9/12 Voltages and Currents - 11/10/86 HICS.11 - Tech Tips for Cartridge Streamer Tapes - 7/10/85 HITS.15 - Installing and Configuring 2/4MB LCMs - 9/10/86 HITS.16 - Power Rating of POINT 4 Systems - 9/10/86 HITS.18 - MARK 12 Power Supply and Chassis, 11/10/86 HITS.19 - RS232 Serial Interfaces, and New Modular Connectors, 3/10/87 HITS.20 - Installing/Configuring 2/4MB Extended Memory, 6/9/87 HITS.21 - MARK 12 CPU and Firmware, 6/10/87 Tech Memo: Installing the 128-Port Panel - 6/25/87 See also System Software - IRIS R8 Release Notes

MIGHTY MUX

MIGHTY MUX User Manual - Rev B, 4/10/87 MIGHTY MUX (300) Diagnostic (V1.7) Manual - (old format), 7/27/79 MIGHTY MUX (310) Diagnostic (V2.0) Manual - Rev 02, 8/21/87

RACK-MOUNTED PERIPHERAL SUBSYSTEM

Tech Memo: Rack-mounted Peripheral Subsystem Unpacking and Installation, Rev 01, 8/10/84

WS100 TERMINAL

Tech Memo: WS100 Terminal Features - Rev 03, 2/15/85 Lear Siegler's ADM11 Video Display Terminal Users Reference Manual (available with terminal only)

^{*}In revision

SYSTEM SOFTWARE

IRIS R7.5

- IRIS 7.3 Manager Manual old format, 9/5/78
- IRIS 7.3 User Manual old format, 9/5/78
- IRIS 7.5 Release Notes 11/10/84
- IRIS 7.5A Peripherals Handbook (M5/M8) 6/10/85
- IRIS 7.5A Peripherals Handbook (M3) 6/10/85
- IRIS 7.5 CTUTILITY Document Rev 05, 12/1/83
- LOTUS Cache Memory Software Manual (R7.5) Rev B, 7/15/83

IRIS R8

- IRIS R8 BASIC Quick Reference Guide 6/85
- IRIS R8 Business BASIC Manual (preliminary) Rev 02, 2/1/84
- IRIS R8 Installation & Config Manual Rev 13, 12/10/85
- IRIS R8 LCM Installation Document Rev 08, 12/10/85
- IRIS R8 Operations Manual Rev 10, 02/10/85
- IRIS R8 Peripherals Handbook Rev 19, 10/10/86
- IRIS R8 Polyfiles Document (preliminary) Rev 08, 12/1/83
- IRIS R8 Release Notes Document 04/10/87
- IRIS R8 User Manual Rev 04, 08/10/85

IRIS R9

- IRIS R9 BASIC Quick Reference Guide Rev A, 7/87
- IRIS R9 Business BASIC Manual Rev B, 6/26/87
- IRIS R9 (IRIS) Quick Reference Guide Rev A, 7/87
- IRIS R9 Peripherals Handbook Rev 05, 6/26/87
- IRIS R9 Release Notes Rev 6/87
- IRIS R9 System Configuration Manual Rev B, 6/26/87
- IRIS R9 System Manager Manual Rev B, 6/26/87
- IRIS R9 User Reference Manual Rev 05, 6/26/87

DISCUTILITY

LOTUS DISCUTILITY Manual - Rev 05, 7/10/86

MARK 2/4 DISCUTILITY Tech Memo - Rev 03, 2/10/87

MARK 3 DISCUTILITY - see:

MARK 3T Computer User Guide

R8 Release Notes (Sections 8 and 9)

R7.5 Release Notes (Sections 49 and 51)

^{*}In revision

APPLICATIONS

ELECTRONIC OFFICE

Electronic Office System Manual - Rev F, 3/10/87 EOS Quick Reference Card - 8/86

FORCE

FORCE User Manual - Rev C, 10/1/83 FORCE System Development Guide - 2/1/83 FORCE Quick Reference Card - 3/10/84

PC CONNECTION

PC Connection (User) Manual - Rev B, 11/10/84
Tech Memo: Upgrade Procedure for the POINT 4 PC Connection, 11/06/84

SMbasic

SMbasic Manual - Rev B, 7/15/87 SMbasic Release Notes - Rev 7/87 SMbasic Quick Reference Guide - March 1987

STYLUS

STYLUS Installation Tech Memo - 7/14/81
STYLUS User (Reference) Manual - Rev B, 4/15/82
STYLUS V3.0 Supplement to STYLUS User Manual - 9/1/82
STYLUS (V3.0) Self-Demo - 7/21/83
STYLUS Quick Reference Card - 8/87

TYPIST

TYPIST Installation Manual - Rev E, 9/1/83

TYPIST Manager Manual (preliminary) - Rev A, 12/9/81

TYPIST User Guide - Rev A, 4/2/83

TYPIST 2.8 Tech Memos:

Enhancements in TYPIST Version 2.8 12/8/82

Upgrading from TYPIST 2.0 to 2.8 Rev 02, 2/14/83

Modifying TYPIST Module Logical Unit Number 12/10/82

TYPIST 2.7 Tech Memos:

Features Not Available Under TYPIST 2.7, 10/1/83

Creating \$paragraphs from Text Files Shipped with TYPIST under IRIS 7.5 - Rev 02, 3/10/84

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