

Stride Price List  
mSBC/600 & 400 Series

September 15, 1987

MicroSage Computer Systems, Inc.

ML0058A

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Stride Product Group

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Reno, NV 89502

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# Stride International Price List

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## Stride 430+

Standard Stride 430+ microcomputer shipments contain:

<ul style="list-style-type: none"> <li>- 12 MHz MC68020 microprocessor</li> <li>- 1M byte parity DRAM (Non-expandable)</li> <li>- 128K bytes static RAM</li> <li>- 4K bytes battery backed-up CMOS RAM</li> <li>- Battery backed-up real-time clock</li> <li>- Four RS-232C serial ports</li> <li>- 5' terminal cable</li> <li>- Centronics parallel port</li> <li>- .....</li> <li>- .....</li> </ul>	<ul style="list-style-type: none"> <li>- High-performance ST-506 hard disk</li> <li>- One 640K byte 5.25" floppy drive</li> <li>- .....</li> <li>- .....</li> <li>- .....</li> <li>- .....</li> <li>- p-System IV.22, ASE, Filer &amp; Utilities</li> <li>- Multiuser BIOS &amp; 68020 Interpreter</li> <li>- p-System Operating System manual</li> <li>- Stride Owner's Manuals Vol. I &amp; II</li> </ul>
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Part#	Description	Retail	A	B	C	D	E	F
SC0200	Stride 430+ system with ..... 40M byte hard disk	\$5495	3846	3709	3571	3571	3571	3571

*NOTE: All drive capacities are unformatted values.*

## Stride 430+ Options

Part#	Description	Retail	A	B	C	D	E	F
IP0044	Omninet Networking Hardware.	\$ 595	416	401	386	371	357	327
IP0081	68020 FPU Option (68881).....	595	416	401	386	371	357	327
IP0004	2d Floppy Drive (5.25" 640K)...	395	276	266	256	246	237	217

The Stride 430+ is a **non-expandable** system.

## Stride 440+

Standard Stride 440+ microcomputer shipments contain:

<ul style="list-style-type: none"> <li>- 12MHz MC68020 microprocessor</li> <li>- 1M bytes parity DRAM</li> <li>- 128K bytes static RAM</li> <li>- 4K bytes battery backed-up CMOS RAM</li> <li>- Battery backed-up real-time clock</li> <li>- 10 or 16 RS-232C serial ports</li> <li>- 5' terminal cable</li> <li>- Centronics parallel port</li> <li>- .....</li> <li>- VMEbus architecture (3 position)</li> </ul>	<ul style="list-style-type: none"> <li>- High-performance ST-506 hard disk</li> <li>- One 640K byte 5.25" floppy drive</li> <li>- .....</li> <li>- .....</li> <li>- .....</li> <li>- .....</li> <li>- p-System V.22, ASE, Filter &amp; Utilities</li> <li>- Multiuser BIOS &amp; 68020 Interpreter</li> <li>- p-System Operating System manual</li> <li>- Stride Owner's Manuals Vol. I &amp; II</li> </ul>
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Part#	Description	Retail	A	B	C	D	E	F
SC0201	Stride 440+ system with ..... 43M byte hard disk	\$8695	6086	5869	5651	5434	5217	4782
SC0202	Stride 440+ system with ..... 87M byte hard disk	9895	6926	6679	6431	6184	5937	5442
SC0203	Stride 440+ system with ..... 190M byte hard disk	12095	8466	8164	7861	7559	7257	6652

*NOTE: All drive capacities are unformatted values.*

## Stride 440+ Options

Part#	Description	Retail	A	B	C	D	E	F
IP0081	68020 FPU Option (68881) .....	\$ 595	416	401	386	371	357	327
IP0074	1M byte RAM Expansion ..... Order such that total system RAM equals 2 or 4M bytes only.	895	626	604	581	559	537	492
IP0003	Stride 440 Streaming Tape Drive ..... Not available if 2d floppy is installed. Order cartridges separately	1695	1186	1144	1101	1059	1017	932
IP0023	2d Floppy Drive (5.25" 640K)..... Not available if tape unit installed	395	276	266	256	246	237	217
IP0032	Stride 440 Graphics Option ..... Requires Stride Graphics Terminal Includes 5' graphics cable	395	276	266	256	246	237	217
IP0010	Stride 440 Port Board(no RAM) .....	795	556	536	516	496	477	437
IP0044	Omninet Networking Hardware .....	595	416	401	386	371	357	327
IP0026	Stride 440 IEEE-488 VME Option .... Includes mounting hardware, back panel and assembly code software.	695	486	469	451	434	417	382

## Stride 460+

Standard Stride 460+ microcomputer shipments contain:

<ul style="list-style-type: none"> <li>- 12MHz MC68020 microprocessor</li> <li>- 4M bytes parity DRAM</li> <li>- 128K bytes static RAM</li> <li>- 4K bytes battery backed-up CMOS RAM</li> <li>- Battery backed-up real-time clock</li> <li>- 10 or 16 RS-232C serial ports</li> <li>- 5' terminal cable</li> <li>- Centronics parallel port</li> <li>- .....</li> <li>- VMEbus architecture (6 position)</li> </ul>	<ul style="list-style-type: none"> <li>- High-performance ST-506 hard disk</li> <li>- One 640K byte 5.25" floppy drive</li> <li>- .....</li> <li>- .....</li> <li>- .....</li> <li>- p-System V.22, ASE, Filer &amp; Utilities</li> <li>- Multiuser BIOS &amp; 68020 Interpreter</li> <li>- p-System Operating System manual</li> <li>- Stride Owner's Manuals Vol. I &amp; II</li> </ul>
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Part#	Description	Retail	A	B	C	D	E	F
SC0176	Stride 460+ system with ..... 43M byte hard disk	\$11595	8116	7826	7536	7246	6957	6377
SC0178	Stride 460+ system with ..... 87M byte hard disk	12795	8956	8636	8316	7996	7677	7037
SC0195	Stride 460+ system with ..... 190M byte hard disk(s)	14795	10356	9986	9616	9246	8877	8137
SC0196	Stride 460+ system with ..... 380M byte hard disk(s)	19190	13433	12953	12473	11993	11514	10554
SC0197	Stride 460+ system with ..... 570M byte hard disk(s)	23585	16509	15919	15330	14740	14151	12971

*NOTE: All drive capacities are unformatted values.*

## Stride 460+ Options

Part#	Description	Retail	A	B	C	D	E	F
IP0081	68020 FPU Option (68881) .....	\$ 595	416	401	386	371	357	327
IP0074	1M byte RAM Expansion ..... Order such that total system RAM equals 2 or 4M bytes only.	895	626	604	581	559	537	492
IP0025	Stride 460 Streaming Tape Drive ..... Not available if 2d floppy unit is installed. Order cartridges separately	1695	1186	1144	1101	1059	1017	932
IP0024	Stride 460 Second Floppy Drive ..... Not available if tape unit installed	395	276	266	256	246	237	217
IP0033	Stride 460 Graphics Option ..... Requires Stride Graphics terminal. Includes 5' graphics cable	395	276	266	256	246	237	217
IP0034	Stride 460 Port Board (No RAM) ..... Takes one VMEbus slot	795	556	536	516	496	477	437
IP0044	Omninet Networking Hardware .....	595	416	401	386	371	357	327
IP0027	Stride 460 IEEE-488 VME Option ... Takes one regular VMEbus slot. Includes mounting hardware, back panel and assembly code software .	695	486	469	451	434	417	382



# HSMD High Performance Disk Subsystem

- VMEbus Controller w/embedded 68000
- 18 ms average seek
- 2.0M byte/sec transfer rate

*The HSMD Disk Subsystem may be connected to both 460 and 660 Series microcomputers. Contact the Sales Department for delivery schedules.*

*For 400 Series Power System operation order SF0270. (The 020 Engine is currently required). 600 Series Power System is not yet available. Some limitations apply to disk assignment for the HSMD Power System. Please contact your sales representative for further details.*

*For UniStride operation, order SF0260 for both 400 Series and 600 Series.*

Part#	Description	Retail	Wholesale
IP0083	HSMD disk subsystem ..... 510M byte unformatted	\$17695	11501
IP0084	HSMD disk subsystem ..... Second 510M byte drive for a total of 1020M bytes.. Must be ordered with IP0083	8995	5846
SF0260	HSMD UniStride Software (binary) .....	195	127
SF0270	HSMD Power System Software (binary)..... Requires 020 Engine option	195	127

## Stride 440 UNIX System

Standard Stride 440 UNIX (UniStride) microcomputer shipments contain:

<ul style="list-style-type: none"> <li>- 10MHz MC68010 microprocessor</li> <li>- 2M bytes parity DRAM</li> <li>- 128K bytes static RAM</li> <li>- 4K bytes battery backed-up CMOS RAM</li> <li>- Battery backed-up real-time clock</li> <li>- 10 RS-232C serial ports</li> <li>- 5' terminal cable</li> <li>- Centronics parallel port</li> <li>- VMEbus architecture (3 position)</li> </ul>	<ul style="list-style-type: none"> <li>- High-performance ST-506 hard disk</li> <li>- One 640K byte 5.25" floppy drive</li> <li>- One 60M byte Streaming Tape Drive</li> <li>- Memory Management Unit</li> <li>- UniStride development license</li> <li>- Demand paging, 4.3Bsd enhancements</li> <li>- p-System IV.22, ASE, Filer &amp; Utilities</li> <li>- Multiuser BIOS &amp; 68010 Interpreter</li> <li>- Stride Owner's Manuals Vol. I &amp; II</li> </ul>
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Part#	Description	Retail	A	B	C	D	E	F
SC0207	440 10-user UniStride system with . 43M byte hard disk	\$ 9995	6996	6746	6496	6246	5997	5497
SC0208	440 10-user UniStride system with . 87M byte hard disk	10895	7626	7354	7081	6809	6537	5992
SC0209	440 10-user UniStride system with . 190M byte hard disk	13935	9754	9406	9057	8709	8361	7664

*NOTE: All disk capacities are unformatted values.*

## Stride 440 UNIX System Options

Part#	Description	Retail	A	B	C	D	E	F
IP0074	1M byte RAM Expansion ..... Order such that total system RAM equals 2 or 4M bytes only.	\$ 895	626	604	581	559	537	492
IP0034	Stride 460 Port Board (No RAM) ..... Takes one VMEbus slot UniStride sites require SF0216 License	795	556	536	516	496	477	437
IP0032	Stride 440 Graphics Option ..... Requires Stride graphics terminal Includes 5' graphics cable	395	276	266	256	246	237	217
IP0026	Stride 440 IEEE-488 VME Option ..... Installed in open VME slot. Includes mounting hardware, back panel and assembly code software	695	486	469	451	434	417	382
DC0160	UniStride Manuals .....	505	328	328	328	328	328	328
IP0044	Omninet Networking Hardware .....	595	416	401	386	371	357	327
IP0002	Floating Point Processor NS32081 .....	595	416	401	386	371	357	327

## Stride 460 UNIX System

Standard Stride 460 UNIX (UniStride) microcomputer shipments contain:

<ul style="list-style-type: none"> <li>- 10MHz MC68010 microprocessor</li> <li>- 4M bytes parity DRAM</li> <li>- 128K bytes static RAM</li> <li>- 4K bytes battery backed-up CMOS RAM</li> <li>- Battery backed-up real-time clock</li> <li>- 10 or 16 RS-232C serial ports</li> <li>- 5' terminal cable</li> <li>- Centronics parallel port</li> <li>- VMEbus architecture (6 position)</li> </ul>	<ul style="list-style-type: none"> <li>- High-performance ST-506 hard disk</li> <li>- One 640K byte 5.25" floppy drive</li> <li>- One 60M byte Streaming Tape Drive</li> <li>- Memory Management Unit</li> <li>- UniStride development license</li> <li>- Demand paging, 4.3Bsd enhancements</li> <li>- p-System IV.22, ASE, Filer &amp; Utilities</li> <li>- Multiuser BIOS &amp; 68010 Interpreter</li> <li>- Stride Owner's Manuals Vol. I &amp; II.</li> </ul>
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Part#	Description	Retail	A	B	C	D	E	F
SC0210	460 10-user UniStride system ... with 43M byte hard disk	\$12895	9026	8704	8381	8059	7737	7092
SC0211	460 10-user UniStride system ... with 87M byte hard disk	13795	9656	9311	8966	8621	8277	7587
SC0212	460 10-user UniStride system ... with 190M byte hard disk	16835	11784	11363	10942	10521	10101	9259

*NOTE: All disk capacities are unformatted values.*

## Stride 460 UNIX System Options

Part#	Description	Retail	A	B	C	D	E	F
IP0074	1M byte RAM Expansion ..... Order such that total system RAM equals 2, 4M or 8M bytes only.	\$ 895	626	604	581	559	537	492
IP0034	Stride 460 Port Board (No RAM) ..... Takes one VMEbus slot UniStride sites require SF0216 License	795	556	536	516	496	477	437
IP0033	Stride 460 Graphics Option ..... Requires Stride graphics terminal Includes 5' graphics cable	395	276	266	256	246	237	217
IP0027	Stride 460 IEEE-488 VME Option ..... Installed in open VME slot. Includes mounting hardware, back panel and assembly code software	695	486	469	451	434	417	382
DC0160	UniStride Manuals .....	505	328	328	328	328	328	328
IP0044	Omninet Networking Hardware .....	595	416	401	386	371	357	327
IP0002	Floating Point Processor NS32081 .....	595	416	401	386	371	357	327

## Stride 640 UNIX System

Standard Stride 640 UNIX (UniStride) microcomputer shipments contain:

<ul style="list-style-type: none"> <li>- 16MHz MC68020 microprocessor</li> <li>- 4M bytes parity DRAM</li> <li>- 128K bytes static RAM .....</li> <li>- 32K bytes battery backed-up CMOS RAM</li> <li>- Battery backed-up real-time clock</li> <li>- 8.16 or 24 RS-232C serial ports</li> <li>- 5' terminal cable</li> <li>- .....</li> <li>- VMEbus Architecture</li> </ul>	<ul style="list-style-type: none"> <li>- High-performance SCSI disks</li> <li>- .....</li> <li>- 120M byte Streaming Tape Drive</li> <li>- Memory Management Unit</li> <li>- UniStride development license</li> <li>- Demand paging, 4.3Bsd enhancements</li> <li>- .....</li> <li>- System Diagnostics (in PROM)</li> <li>- System Release Documentation</li> </ul>
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Part#	Description	Retail	A	B	C	D	E	F
SC0607	640 8-user UniStride system.... with 101M byte hard disk	\$19995	13996	13496	12996	12496	11997	10997
SC0608	640 8-user UniStride system.... with 173M byte hard disk	20995	14696	14171	13646	13121	12597	11547

*NOTE: All disk capacities are unformatted values.*

## Stride 640 UNIX System Options

Part#	Description	Retail	A	B	C	D	E	F
IP0103	4M byte mSBC RAM Expansion.....	5175	3622	3493	3363	3234	3105	2846
IP0104	8M byte mSBC RAM Expansion.....	9555	6688	6449	6210	5971	5733	5255
IP0105	12M byte mSBC RAM Expansion.....	11935	8354	8056	7757	7459	7161	6564
IP0106	4M byte RAM/Sky Board .....	5175	3622	3493	3363	3234	3105	2846
IP0107	8M byte RAM/Sky Board .....	9555	6688	6449	6210	5971	5733	5255
IP0108	12M byte RAM/Sky Board .....	11935	8354	8056	7757	7459	7161	6564
IP0109	16M byte RAM/Sky Board .....	14315	10020	9662	9304	8946	8589	7873
IP0091	RS-232C, 8-Port Sky Board .....	1195	836	806	776	746	717	657
IP0092	RS-232C, 16-Port Sky Board .....	1995	1396	1346	1296	1246	1197	1097
	Requires SF0283 license							
IP0088	16MHz FPU (MC68881) .....	895	626	604	581	559	537	492
IP0113	SCSI Floppy Interface & Cables.....	695	486	469	451	434	417	382
IP0090	3.5" 2M byte SCSI Floppy Drive .....	495	346	334	321	309	297	272
	(1.66K formatted) Requires IP0113							
IP0093	5.25" 640K byte Floppy Drive.....	395	276	266	256	246	237	217
	Requires IP0113							
DC0346	600 Series UniStride Manual Set .....	505	328	328	328	328	328	328

# Stride 660 UNIX System

Standard Stride 660 UNIX (UniStride) microcomputer shipments contain:

- 16MHz MC68020 microprocessor	- High-performance SCSI disks
- 4M bytes parity DRAM	- .....
- 128K bytes static RAM.....	- 120M byte Streaming Tape Drive
- 32K bytes battery backed-up CMOS RAM	- Memory Management Unit
- Battery backed-up real-time clock	- UniStride development license
- 16,24,32 or 40 RS-232C serial ports	- Demand paging, 4.3Bsd enhancements
- 5' terminal cable	- .....
- .....	- System Diagnostics (in PROM)
- VMEbus architecture (6 position)	- System Release Documentation

Part#	Description	Retail	A	B	C	D	E	F
SC0602	660 16-user UniStride system .. with 101M byte hard disk	\$22995	16096	15521	14946	14371	13797	12647
SC0603	660 16-user UniStride system .. with 173M byte hard disk	23995	16796	16196	15596	14996	14397	13197
SC0604	660 16-user UniStride system .. with 280M byte hard disk(s)	26995	18896	18221	17546	16871	16197	14847
SC0605	660 16-user UniStride system .. with 560M byte hard disk(s)	33585	23509	22669	21830	20990	20151	18471
SC0606	660 16-user UniStride system .. with 840M byte hard disk(s)	40185	28129	27124	26120	25115	24111	22101

NOTE: All drive sizes are unformatted values.

## Stride 660 UNIX System Options

Part#	Description	Retail	A	B	C	D	E	F
IP0103	4M byte mSBC RAM Expansion ...	\$ 5175	3622	3493	3363	3234	3105	2846
IP0104	8M byte mSBC RAM Expansion ...	9555	6688	6449	6210	5971	5733	5255
IP0105	12M byte mSBC RAM Expansion .	11935	8354	8056	7757	7459	7161	6564
IP0106	4M byte RAM/Sky Board .....	\$ 5175	3622	3493	3363	3234	3105	2846
IP0107	8M byte RAM/Sky Board .....	9555	6688	6449	6210	5971	5733	5255
IP0108	12M byte RAM/Sky Board .....	11935	8354	8056	7757	7459	7161	6564
IP0109	16M byte RAM/Sky Board .....	14315	10020	9662	9304	8946	8589	7873
IP0091	RS-232C, 8-Port Sky Board .....	1195	836	806	776	746	717	657
	Requires SF0283/84 license							
IP0092	RS-232C, 16-Port Sky Board .....	1995	1396	1346	1296	1246	1197	1097
	Requires SF0283/84 license							
IP0088	16MHz FPU MC68881 .....	895	626	604	581	559	537	492
IP0113	SCSI Floppy Interface & cables.....	695	486	469	451	434	417	382
IP0090	3.5" 2M byte Floppy Drive.....	495	346	334	321	309	297	272
	(1.66K formatted) Requires IP0113							
IP0093	5.25" 640K byte Floppy Drive.....	395	276	266	256	246	237	217
	Requires IP0113							
DC0346	600 Series UniStride Manual Set .....	505	328	328	328	328	328	328

## Peripherals

Part#	Description	Retail	Wholesale	Notes
PH0066	Stride NOD ..... Includes special 5' cable and external power supply	\$395.00	256.00	
PH0063	Stride Terminal .....	595.00	445.00	
PH0068	Stride Graphics Terminal .....	595.00	445.00	

## 400 Series Media

Part#	Description	Retail	Wholesale	Notes
DK0001	5.25" DS DD diskettes ..... (Box of 10)	\$ 45.00	29.00	
PH0056	60M byte data cartridge (600' tape) .	52.00	33.00	
DK0003	5.25" Datalife head cleaning kit, ..... by Verbatim	25.00	16.00	
DK0005	5.25" Datalife replacement cleaning .. diskettes, by Verbatim (Box of 10)	25.00	16.00	
DK0007	80-track Dysan diagnostic disk .....	95.00	62.00	
DK0048	5.25" Catseye alignment disk .....	133.00	86.00	

## 600 Series Media

Part#	Description	Retail	Wholesale	Notes
DK0001	5.25" DS DD diskettes ..... (Box of 10)	\$ 45.00	29.00	
PH0056	120M byte data cartridge (600' tape) .	52.00	33.00	
MD0003	3.5" DS HD 2M byte diskettes ..... (Box of 10)	52.00	33.00	
MD0004	3.5" Datalife head cleaning kit .....	25.00	16.00	
DK0003	5.25" Datalife head cleaning kit .....	25.00	16.00	
DK0005	5.25" Datalife replacement cleaning .... diskettes (Box of 10)	25.00	16.00	

## Cables

*400 Series & 600 Series cables are the same, except that the gold ground pin must be removed from the cable plug to fit the 600 Series jack.*

Part#	Description	Retail	Wholesale	Notes
CC0130	5' Stride terminal cable .....	\$ 22.50	14.50	
CC0131	10' Stride terminal cable .....	25.50	16.50	
CC0132	25' Stride terminal cable .....	33.00	21.00	
CC0133	50' Stride terminal cable .....	43.50	28.00	
CC0134	100' Stride terminal cable .....	79.50	51.50	
CC0135	200' Stride terminal cable .....	125.00	81.00	
CC0136	5' Stride to Hayes modem cable .....	22.50	14.50	
CC0137	10' Stride to Hayes modem cable .....	25.00	16.00	
CC0138	6" Stride universal cable adaptor kit.	35.50	23.00	1
CC0025	10' Parallel printer cable (400s).....	47.00	30.50	
CC0026	25' Parallel printer cable (400s).....	70.00	45.50	
CC0170	5' Graphics cable (400s).....	83.00	53.50	
CC0171	10' Graphics cable (400s).....	127.00	82.50	

## Cable Components & Accessories

Part#	Description	Retail	Wholesale	Notes
CA0020	Stride terminal cable .....	\$ .50	.33	2
	(cost per foot) Special Order			
	- Allow 8 Weeks			
CN0041	6-Pin modular jack .....	4.00	2.50	
CN0042	6-Pin modular plug .....	1.00	.50	
CN0014	Connector housing (RS-232C) ....	2.50	1.50	
CN0025	Female housing (RS-232C) .....	3.00	1.50	
CN0015	Pins (RS-232C) .....	3.00	1.50	

## 400 Series Omninet Cables

Part#	Description	Retail	Wholesale	Notes
CC0140	7' Stride-Omninet ..... drop cable	\$ 5.50	3.50	
CC0141	15' Stride-Omninet ..... drop cable	11.50	7.00	
CC0142	Omninet bus cable ..... (cost per foot)	.20	.16	2
CN0042	Omninet connector plug ..... (shield pin must be removed)	1.00	.50	
PH0060	Network tap .....	2.00	1.30	
PH0061	Active junction box .....	296.00	192.00	
RS0029	5 Terminators ..... (100 Ohm Resistors)	1.00	.50	

### Cable Notes

- (1) The standard Stride cables are male RJ11C to male DB-25. The "universal adaptor kit" is a female DB-25 to a male or female DB-25 with fully configurable pin-outs between the two connectors. An extraction tool is also included with this kit.
- (2) Quotations available on purchases of 1000 feet or more. Contact Sales.



# STRIDE SOFTWARE

## Pecan Power System Software

### Languages & Utilities

The following Power System software (aka p-System software) is available for the 400 Series but not yet for the 600 Series. Versions for the SAGE II and SAGE IV machines are available from JLB Enterprises, (215) 642-1057.

Stride Power System software may differ in small details from similar versions offered by Pecan for other machines. Please do not mix and match such versions. MicroSage only supports software we qualify on our machines.

Part#	Description	Retail	Wholesale	Notes
SF0208	Program Development Package (IV.22) ..... UCSD Pascal compiler, 68000 assembler 68000 Native Code Generator, Debugger UCSD Pascal & Professional Pack Manuals	\$ 260	169	
SF0209	p-System Program Dev Update (IV.22).....	120	78	
SF0210	p-System 400s Runtime Update (IV.22).....	60	39	
SF0211	p-System 400s Runtime+Prog Dev Update .....	160	104	
SF0212	p-System 020 Runtime+Prog Dev Update.....	160	104	
SF0255	FORTRAN-77 (IV.22) with Manual .....	90	59	
SF0226	BASIC with Manual .....	90	59	
SF0073	Essential Pascal Aids (IV.13 & IV.21) ..... with Manual	195	126	
SF0121	Stride Sources (Boot ROM, Debugger, ..... Single User BIOS and Tape backup)	50	32	
SF0143	Mantri Chess Program .....	50	32	
SF0156	Poker Game (Stride & Wy-50 terminals only).	50	32	
SF0155	p-System Kermit (unsupported source) .....	40	26	
SF0164	3D Graphics Demo.....	50	32	1
SF0227	Print Spooler .....	40	26	
SF0230	Insight Window Designer .....	90	59	
SF0231	Swan's Relational Database .....	90	59	
SF0243	Modula-2 Compiler, Pecan pcode interpretive ..	90	59	
SF0166	Modula-2 Compiler, ScenicSoft .....	500	325	
	68000 native code			
SF0263	Stride 68020 Assembler .....	100	65	
SF0223	Cross-Assemblers/NCG package .....	90	59	
	6800, 8080, 8086/88, 9900, PDP-11, Z80, 6809, 6502/65816			

## Word Processing/Text Editors/Spreadsheets

Part#	Description	Retail	Wholesale	Notes
SF0118	Word7 & Spell7 .....	\$ 450	292	
SF0140	Menu7 menu program .....	180	117	
SF0173	Calc7 spreadsheet .....	435	282	
SF0141	Mail7 mailing package .....	240	156	
SF0142	Office7 automation package .....	845	549	
SF0218	PMail Communication Package .....	145	94	

## 400 Series Diagnostic Software

Part#	Description	Retail	Wholesale	Notes
SF0202	RAM and MMU test .....	\$ 65	42	
SF0213	MAP400 Winchester Diagnostic .....	65	42	
	400 Series version of MAP			
SF0258	MAP020 Winchester Diagnostic .....	65	42	
	020 Engine version of MAP			
SF0220	FPU Quick Check .....	65	42	
	(National 32081)			
SF0219	Serial Port Quick Check .....	65	42	
SF0261	Cycler020 Diagnostic .....	65	42	
SF0256	Floppy Alignment Diagnostic .....	142	92	
SF0262	Stride 400 Series Diagnostics .....	495	322	
	ALL available diagnostics plus schematics.			

## Other Software

Part#	Description	Retail	Wholesale	Notes
DK0105	HyperFORTH Plus bootstrap .....	\$ 40	26	4
SF0176	MacLine .....	145	94	3
	Mac acts as a p-System terminal			
SF0175	PCWorks .....	195	127	3
	PC acts as a p-System terminal			

## UNISTRIDE (UNIX SYSTEM V) SOFTWARE

The majority of UniStride software is shipped on tape cartridges, not floppies. UniStride machines require a tape drive.

### 400 Series UniStride Licenses

Part#	Description	Retail	Wholesale	Notes
SF0186	1-16 User UniStride License (400 Series)... Development System System V, Release 2.1	\$1195	770	2
SF0190	User UniStride Update (400 Series)..... Specify number of users Development System System V, Release 2.1 (68010 update) Tape only	95	62	2
SF0216	17-32 User UniStride License (400 Series). Development System System V, Release 2.1	1995	1296	2

### 600 Series UniStride Licenses

Part#	Description	Retail	Wholesale	Notes
SF0274	1-16 User UniStride License (600 Series). Development System System V, Release 2.1	1295	842	2
SF0282	UniStride Update (600 Series)..... Specify number of Users Development System System V, Release 2.1	95	62	2
SF0283	17-32 UniStride License (600 Series)..... Development System System V, Release 2.1	1995	1296	2
SF0284	33-64 UniStride License (600 Series)..... Development System System V, Release 2.1	4995	3246	2

*Updates require UniStride serial number.*

## UNIX Word Processors & Spreadsheets

Part#	Description	Retail	Wholesale	Notes
SF0277	Crystal Writer Plus Word Processor....	\$1095	712	
SF0278	Crystal Writer Demo .....	362	235	
SF0279	Crystal Writer Typesetting Package ... add-on to word processor	1795	1167	
SF0280	Crystal Writer Publishing Package .... both Word Processor & Typesetting	2695	1752	
SF0167	ROFFICE Plus, word processor and office automation package .....	1895	1230	
SF0288	ROFFICE Plus upgrade from ROFFICE	595	386	
SF0289	RWORD Plus upgrade from RWORD	595	386	
SF0172	QCALC, spreadsheet .....	830	539	
SF0275	QCALC update to 3.3 .....	360	235	
SF0276	QCALC graphics package..... for selected graphics terminals	290	189	6
SF0266	AutoGraph Business Graphics .....	695	452	

## UNIX Databases

Part#	Description	Retail	Wholesale	Notes
SF0170	Unify Development System .....	\$1995	1297	
	(400 Series)			
SF0171	Unify Runtime System (400 Series) ..	995	647	
SF0264	Accell (400 Series) .....	4995	3246	
SF0265	Accell Demo (both 400 & 600) .....	350	350	5
SF0285	Unify Development System .....	2995	1946	
	(600 Series)			
SF0286	Unify Runtime System (600 Series) ..	995	647	
SF0287	Accell (600 Series) .....	6250	4062	

## UNIX Languages & Utilities

Part#	Description	Retail	Wholesale	Notes
SF0153	SVS FORTRAN-77 compiler .....	\$ 595	387	
SF0154	SVS Pascal compiler .....	595	387	
SF0165	SVS BASIC-Plus compiler .....	595	387	
SF0178	MicroFocus COBOL Development System .	2795	1816	
SF0181	MicroFocus COBOL Runtime System .....	595	395	
SF0179	MicroFocus Form-2, Screen Generator .....	495	325	
SF0189	MicroFocus Animator (Debugger) .....	1595	1035	
SF0150	EMACS program editor .....	395	257	
SF0273	EMACS update .....	245	196	
SF0182	Unigrafix (unsupported, public domain) ...	50	32	
SF0174	UniHost (Stride) .....	395	257	3
SF0175	PCWorks .....	195	127	3
SF0176	MacLine .....	145	94	3
SF0201	UNIX Hosted p-System .....	595	387	
SF0204	Absoft FORTRAN 77 .....	1225	796	

### NCR Tower Compatible Applications

A large and growing number of applications for the NCR Tower XP, 32/400 and 32/600 are available for the Stride 400 and 600 Series computers. These applications install and run without modification. A list is available from your sales manager. MicroSage will resell any such application at retail price plus 20% for handling (or a minimum of \$250). MicroSage will provide installation support and support on any questions relating to compatibility. The vendors provide end-user support on operation.

## Stride Software Notes

- (1) 3D Animated Demo requires 2M bytes of RAM and the Stride Graphics Option and Stride Graphics Terminal.
- (2) UniStride is shipped only on a 600' QIC-02 tape cartridge. It requires at least 43M byte of disk, 2M bytes of RAM, and the Memory Management Option. A site must have installed the proper license for the number of users (i.e. serial ports) or the extra serial ports will not work. Each of the UNIX machines offered in the September 1, 1987 price list already includes a license for 1-16 users.
- (3) Emulates standard ASCII terminals. File conversion from UNIX to PC or Mac formats with UNIHOST. Does not support alternate/foreign character sets.
- (4) Stride will no longer be selling HyperFORTH Plus directly. However, it may still be purchased from WSM Group. Stride will still provide the bootstraps needed for HyperFORTH Plus. Order DK0105 for the Stride 400 Series.
- (5) Price of Accell demo is refundable towards the purchase of the full Accell package.
- (6) Graphics terminals supported for QCALC graphics package are the 4015, HDS, Sun VI550 and MassComp.

## POWER SYSTEM DOCUMENTATION

Part#	Description	Retail	Wholesale
DC0085	p-System Operating System Manual.(IV.21) .....	\$ 20.00	13.00
DC0086	Stride Owner's Manual Vol I (Mar 86 Ed.) .....	16.50	10.50
DC0087	Stride Owner's Manual Vol II (Mar 86 Ed.) .....	21.00	13.50
DC0088	UCSD Pascal Handbook .....	46.00	29.50
DC0055	Personal Computing with the UCSD p-System ...	23.50	15.00
DC0029	Introduction to Pascal, Zaks, 420 pages .....	56.50	36.50
DC0030	Pascal Handbook, Tiberghien, 473 pages .....	62.50	40.50
DC0106	p-System IV.2 Program Development Manual ....	40.00	26.00
DC0103	p-System IV.2 Internal Architecture Manual .....	44.50	28.50
DC0221	Power System OS User Manual (with ASE doc) .	45.00	29.00
DC0222	Power System UCSD Pascal Manual .....	45.00	29.00
DC0223	Power System Professional Pack Manual .....	45.00	29.00

# UNIX DOCUMENTATION

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Part#	Description	Retail	Wholesale
DC0152	QCALC Manual .....	\$ 126.00	81.60
DC0153	Uniplex II Manual .....	472.00	307.00
DC0043	SVS FORTRAN-77 Manual (UniStride) .	22.50	14.50
DC0044	SVS Pascal Manual (UniStride) .....	16.50	10.50
DC0140	SVS Basic-Plus Manual (UniStride) .....	21.00	13.50
DC0160	400 Series UniStride Manuals (set of 7) .	505.00	328.00
DC0346	600 Series UniStride Manuals (set of 7) .	505.00	328.00
DC0347	mSBC/Startup Guide .....	6.00	4.00
DC0348	mSBC/600 Resident PROM Manual .....	15.00	9.50



## LITERATURE

Part#	Description	Retail	Wholesale
ML0023	420 Brochure (qty. 50 ) .....	\$ 10.00	10.00
ML0025	440 Brochure (qty. 50 ) .....	10.00	10.00
ML0026	460 Brochure (qty. 50 ) .....	10.00	10.00
ML0027	Power System (qty. 50 ) .....	10.00	10.00
ML0028	UniStride UNIX Brochure (qty. 50 ) .	10.00	10.00
ML0029	020 Engine Brochure (qty. 50 ) .....	10.00	10.00
ML0031	Brochure folder (qty. 50 ) .....	10.00	10.00
ML0057	mSBC/600 Brochure (qty. 25 ) .....	10.00	10.00

### Additional Notes

These prices and policies are valid until superceded.

- Software cannot be returned once opened.
- COD shipments must be paid by certified or cashiers check or money order. Company checks must clear before shipment.
- A service charge of 1.5% of the outstanding balance per month will be charged on all overdue accounts.
- Return Policy - All sales are final. If a return is authorized, a 15% restocking fee will be assessed, plus freight charges. Before any item may be returned a RMA number must be secured from your Sales Representative.
- These prices apply only to *contracted* Stride Resellers.

### Extended Warranties

Part#	Description	Retail	Wholesale
WR0014a	1 year/retail cost X .....	12%	8%
WR0015a	2 years/retail cost X .....	22%	15%
WR0016a	3 years/retail cost X .....	40%	26%

## Sales Order Policies

*These policies and spare parts prices take effect September 15, 1987.*

### 1.1. ORDERING

Orders must be submitted with the following information. This will help avoid confusion and eliminate mistakes at the order entry level, and provide a means for tracking orders and confirming requested ship dates.

- 1) Your Purchase Order or Order Reference Number
- 2) Quantity
- 3) Part Number
- 4) Description
- 5) Cost
- 6) Payment Method
- 7) Shipping Method (Freight Carrier, Mail, etc.)
- 8) Requested Ship Date

### 1.2. SHIPPING

#### 1.2.1. USA Shipments

All orders are shipped FOB factory Reno, Nevada, prepaid and billed to the customer's account unless otherwise stipulated by the customer or the Accounting Department.

#### 1.2.2. International Shipments

All orders are shipped FOB factory Reno, Nevada, freight collect via a locally-based carrier. Detailed shipping information for any shipments made via this carrier will be provided. When choosing a carrier, please make sure of the following: 1) the carrier has a Reno agent, 2) the carrier provides Shipper's Letter of Instruction, and 3) the carrier provides a name and telephone number of a contact person.

### **1.3. RMA - RETURN MERCHANDISE AUTHORIZATION POLICY/PROCEDURE**

Should it become necessary to return merchandise for any reason, the factory must first authorize that return. The following procedures in obtaining an RMA number shall apply.

- (1) Contact the Technical Support Department indicating the following:
  - a) Serial number of the defective part/component
  - b) Serial number of the system
  - c) System configuration (both hardware and software)
  - d) Detailed description of the problem/symptoms
- (2) After reviewing the above information, the Technical Support Department will determine whether the defective part/component should be returned. If a return is required, an RMA number will then be issued.
- (3) Merchandise being returned under the RMA policy must be shipped freight prepaid with the RMA number clearly indicated on the outside of each shipping carton as well as stated on a packing slip which should be inserted inside the box. It is also important that a written explanation of the defect or malfunction be included inside the box.
- (4) Once merchandise is received at the factory, it will be repaired or exchanged according to our standard policies and prices. (Please refer to "Return for Repair" and "Return for Exchange" policies.)
- (5) RMA merchandise will be returned by the factory freight prepaid if covered under the Warranty period. Otherwise, all RMA merchandise will be shipped freight collect.

### **1.4. WARRANTY REPAIR or EXCHANGE**

All Stride products manufactured by the company are warranted to be free from defects in material and workmanship for 90 days from the invoice date. The liability under this warranty, in any case, shall not exceed the value of the product claimed defective and it shall be the customer's responsibility to return the merchandise, freight prepaid, to the factory in Reno, Nevada. (Please refer to RMA Policy/Procedure for instructions on returning merchandise to the factory.) Defective merchandise under warranty will be repaired or exchanged, at MicroSage's option, and returned to the customer freight prepaid.

MicroSage reserves the right to refuse the exchange or repair of any merchandise that has been modified or, in MicroSage's opinion, where such modification has caused the warranty to be voided.

## 1.5. NON-WARRANTY EXCHANGE

Components no longer under warranty may be exchanged with either:

- a) A UNIT OF THE SAME REVISION LEVEL AND SAME CONFIGURATION, OR
- b) A UNIT OF A HIGHER REVISION LEVEL AND SAME CONFIGURATION

First a replacement will be shipped to you which will be invoiced at your normal price for outright purchase of the unit. (See the Stride Spare Parts List).

Once you have RETURNED the defective merchandise your account will be credited an amount based on the following:

DRIVES, POWER SUPPLIES:	60% of price will be credited
SAME REVISION LEVEL BOARDS:	60% of price will be credited
ONE REV LEVEL DIFFERENCE:	40% of price will be credited
TWO OR MORE REV LEVEL DIFFERENCE:	30% of price will be credited

For example, your actual cost to exchange an out-of-warranty power supply will only be 40% of the price of a new unit.

Your first invoice will show both the full price and the amount which will be charged to your account for the exchange. You will receive a credit memo for the adjusted amount within 2 weeks from the time the merchandise is received by MicroSage on a valid RMA number.

If the defective merchandise is not received within 60 days from the date the RMA number is issued, no credit will be granted. No credit can be allowed for returned software which has been opened.

MicroSage reserves the right to refuse the exchange credit on any merchandise that has been modified or which, in our sole opinion, is not repairable.

Please refer to RMA Policy/Procedure for instructions on returning merchandise to the factory.

## 1.6. NON-WARRANTY - RETURN FOR REPAIR

Merchandise no longer under warranty may be returned to the factory for repair as per the following pricing structures:

### 1.7. Boards

MicroSage reserves the right to refuse any board which, in our sole opinion is beyond repair.

Repair prices shown below apply to any revision level of board. You will be invoiced this price *plus any parts*.

400 Series Repair Prices	
020 Engine	\$100
MMU Board	\$100
CPU Board	\$250
CPU + 020 Engine	\$250
CPU + MMU Board	\$250
Winchester Board	\$250
Port Board	\$250
Graphics Board	\$250
IEEE Board	\$250

600 Series Repair Prices	
RAM Sky Boards	\$100
Serial Sky Boards	\$100
mSBC Board	\$350
SCSI to ST506	\$100
SCSI to QIC	\$250

### 1.8. Floppy Drives, Winchester Drives, Streaming Tape Drives, etc.

The factory does not repair third-party units such as floppy drives, terminals, Winchester drives, streaming tapes, power supplies, etc. If you wish to exchange a defective drive, power supply, etc., for a working unit, please refer to section titled "Return for Exchange" for further information.

Please refer to RMA Policy/Procedure for instructions on returning merchandise to the factory.

### **1.9. CREDIT (INTERNATIONAL)**

The standard international credit terms are irrevocable Letter of Credit payable at sight in U.S. dollars at a major west coast U.S. bank. Letters of Credit should allow 90 days for negotiation, and must allow for partial and transshipments.

Rush order shipments will be shipped COD or prepaid upon approval of our Credit Department.

### **1.10. CREDIT (DOMESTIC)**

The standard domestic (USA) credit terms are 30 days net invoice, subject to approval by our Credit Department. Otherwise, terms will be COD or prepay.

### **1.11. TECHNICAL SUPPORT**

Our highly qualified staff of technical people is available to help you from 8:00am to 5:00pm PST Monday through Friday, excepting holidays. They will attempt to answer every telephone/telex inquiry within a 24-hour (workday) period. However, those questions which require research may take longer. We encourage all resellers to provide as much detailed information about their problem as possible in order for us to give you timely and accurate solutions.

### **1.12. CUSTOMER SUPPORT ACCOUNTS**

MicroSage maintains many computer systems on premises for customer support. We encourage every customer and reseller to open a no-charge support account with us. These accounts allow you to communicate with our MicroSage sales and support staff using Unix **mail**. Interested customers should contact their Sales Representative to obtain a login account and receive instructions. Resellers should contact MicroSage technical support.

## 400 Series UPGRADE POLICIES

### 2. Upgrading 400 Series Machines

Memory, disk, MMU and 020 Engine upgrades are currently available for the Stride 400 Series.

#### 2.1. 400 Series RAM Upgrade Policy

RAM upgrades will be sold at retail rates given on the Stride Spare Parts Price List, less the customer's contracted discount.

Because the CPU and Winchester boards may be RAM upgraded at a later date, upgrade options include the required parts which can be field installed by qualified personnel.

#### 2.2. Winchester Disk Drive Upgrades

Winchester disk drive upgrades will be sold at retail rates given on the 400 Series Spare Parts Price List, less the customer's contracted discount.

No credit will be issued for the return of any used drives.

#### 2.3. Additional Winchester Disk Drive Upgrades

Second disk drives can be installed directly in systems shipped after Feb. 1, 1987. Older 460s may require new sheetmetal and a larger power supply to handle the larger disk drives (depending on the drive and depending on the power supply). Your sales manager will advise you on your options. If you need the new power supply, order:

SU0061 460 Chassis Upgrade \$971

You must give your old system's serial number to get this discounted price. SU0061 is a complete new power supply, chassis and cables. Order the disk drive separately, see the attached Spare Parts Price List.

#### **2.4. Memory Management Upgrades**

This policy is applicable when upgrading from a non-UNIX system to a UNIX system. The Memory Management option requires purchase of a UniStride License. UniStride requires a minimum of 2MB RAM, a 43MB hard drive and a Revision B or later CPU board.

Mounting the MMU to the CPU board requires some training. Therefore, it is our policy to offer MMU systems as a manufactured set consisting of CPU board, MMU board and a board carrier if applicable. The following procedure will be followed when upgrading a system to the Memory Management option:

- (1) At the time you place your order for the upgrade you will be issued an RMA number for the return of the original CPU board. You will be shipped a board set consisting of a Memory Management unit, Rev B or higher CPU board, and a board carrier. Your invoice will be for the full price of this set.
- (2) You must return the original CPU board AND the board carrier (the sheet metal part that boards mount to) within 60 days of the date the RMA was issued. Within 2 weeks of the receipt of the CPU board and carrier, you will receive a credit memo for the board set which was returned.
- (3) An upgrade fee of \$500.00 will be charged for each Memory Management Unit.
- (4) The above policy does not apply to orders for MMU/UNIX which are installed in a system before shipment.
- (5) An order for UNIX must accompany all MMU orders/upgrades.



## 2.5. 68000 MMU to 68010 MMU Upgrade

Any user upgrading to the most current release of UniStride (V. 2.2) must have a 68010 processor/MMU. There are three ways to upgrade: field, factory or exchange.

### 2.5.1. Field Installation

To upgrade from a 68000 MMU, a new MMU purchase as well as a software upgrade must be ordered. Order *IP0067* and *SF0190*. The MMU package *IP0067* contains the MMU board and instructions for mounting. These instructions are not for those inexperienced with hardware. There is a possibility of breaking off a pin. MicroSage will not replace an MMU with such damage under warranty. *You field upgrade at your own risk.*

### 2.5.2. Factory Installation

If you send your CPU back to the factory, MicroSage will install and test the MMU. You buy *IP0067* and *SF0190* and pay a \$250 charge for testing. You pay shipping charges both to and from the factory.

If you ship the entire system back, the price is the same, but be sure to BACKUP your hard disk. MicroSage will not be responsible for loss of disk data under any circumstances. The \$250 fee does NOT include installation of the *SF0190* UniStride upgrade software.

### 2.5.3. Exchange

Authorized resellers may purchase exchange boards for their clients. MicroSage will ship a working CPU+MMU combination of the same revision and configuration as the client's current CPU. The CPU must be revision B or higher. You must purchase *IP0067* and *SF0190* and pay a labor charge of \$250. You will be invoiced \$2500 (no discounts) for the exchange board. The old CPU must be returned within 60 days of the date on which the return RMA is opened. Once the old board is returned, your account will be credited the \$2500.

If your CPU board is a revision A, then you must purchase *IP0067*, *SF0190* and a complete new board at your normal discount price. You will receive an additional 40% discount off this price if you return the old board within 60 days of the RMA date.

For example:

bd0085a, rev D, 12Mhz, with 1M byte of RAM retails for	\$2545.00.
For a discount of 35%, your purchase price is	\$1654.25.
Credit on return of old board (40% of 1654.25) is	\$ 661.70.
Total price of new board exchange is	\$ 992.55.

## mSBC/600 Series Upgrade Policies

You have two ways to upgrade from a 400 Series computer to a 600 Series computer: 1) trade-in your 400 for a 600 or 2) exchange your CPU & Winchester boards for the mSBC. You should review the two different options carefully to see which is most applicable to your installation. We advise a trade-in whenever possible since this usually involves the least down-time for your client.

### 3. 400 Series to 600 Series Trade-in Program

This program allows you to exchange a 440 or 460 for a new 600 Series computer. Under the trade-in program, you will receive your standard discount:

**PLUS 15%**

on any 600 Series configuration (with the exception of an HSMD system).

The original PO and serial number of the 400 Series microcomputer must be given. The specific location of the computer (physical address) must be given. The computer must match the original configuration as sold from the factory, or as updated via authorized channels. MicroSage reserves the right to refuse any computer which, in the sole opinion of MicroSage, is defective in any manner.

You will be invoiced the full purchase price of the 600 Series computer. The old computer must be returned within 60 days of the date on which the return RMA is opened. Equipment not returned during that time is subject to collection processes or seizure of equipment. Once the 400 Series system is returned, your account will be credited your discount.

#### **4. Upgrading from the 400 Series to the 600 Series**

The Stride 600 Series supermicrocomputer has been designed to allow owners of Stride 440 and 460 models to upgrade their current systems. The chart on the next page lists the many upgrade options available. A discussion of the options follows.

At this time (September 1987), only 400 Series computers running UniStride are candidates for upgrades. If your site uses any other operating system, please contact your Regional Sales Manager for information on availability.

##### **4.1. Disk Upgrade**

Consideration must first be given to the needs of the user in terms of maintaining existing 400 Series "ST-506" disk drives. Using the SCSI/ST-506 interface card (IP0097), users can keep their existing 400 Series disk drives instead of installing the faster and more advanced SCSI disk drives (DDxxxx), which are standard with the 600 Series.

##### **4.2. Board Swap**

A standard 600 Series UNIX board-upgrade will include an mSBC with either 2M bytes or 4M bytes of DRAM, an MMU, and new UniStride software (IP0096 or IP0094). The serial number of your UniStride license must be given.

The prices quoted below are discountable according to normal reseller terms and are subject to the return of the original CPU and Winchester boards in working condition, and in a like configuration.

The mSBC board is the same size as the 400 Series CPU and Winchester boards but has more serial connectors on the back and mounts slightly differently. A chassis upgrade (IP0098 or IP0099) is required.

##### **4.3. Larger Capacity Floppies**

If you upgrade, you may decide not to have a floppy at all. Note that standard distribution media on the 600 Series is on tape, not floppy. Sites wishing to have floppy media must purchase either a new 3.5" or 5.25" floppy option, (IP0090 or IP0093 with the SCSI Floppy Interface IP0113). The 5.25" floppy media is compatible between the 400 Series and 600 Series. The 3.5" microfloppy offers 2M bytes unformatted (1.6M formatted) of storage versus 640K bytes (formatted) on the 5.25" media.

##### **4.4. Larger Capacity Tape Storage**

A site may be upgraded to either

- a) IP0100 - the newer SCSI tape drives with 120M byte tape capacity
- or b) IP0101 - allows you to use your old tape drive via
  - a SCSI to QIC-36 Interface.
  - With this option the tape capacity is still 60M bytes.

#### 4.5. Power Supply & Chassis

Power supply upgrades are not generally needed unless additional disk drives are being added at the time of the upgrade.

The IP0098 and IP0099 kits include all items such as cables, mounting hardware, new back panels and other small components needed to upgrade your particular installation. The 440 to 640 chassis upgrade also includes a new board carrier.

Additional options such as RAM or Port expansions and FPU upgrades are also available. See the mSBC/600 Series Price list or contact our sales department for more information.

#### 4.6. Upgrade Parts

Part #	Description	List Price	Reseller
IP0094	600 Series CPU w/MMU w/2M RAM trade-in .	\$ 7,495	4871
IP0096	600 Series CPU w/MMU w/4M RAM trade-in .	9,995	6496
IP0097	SCSI/ST-506 Interface for Winchester Drives ...	595	386
DD0007	86M/72M bytes SCSI Hard Disk .....	2,595	1686
DD0001	101M/80M bytes SCSI Hard Disk.....	2,395	1556
DD0006	121M/100M bytes SCSI Hard Disk.....	2,895	1881
DD0002	173M/152M bytes SCSI Hard Disk.....	3,395	2206
DD0004	280M/244M bytes SCSI Hard Disk .....	6,595	4286
IP0090	3.5" 2M bytes SCSI Floppy Disk .....	495	321
IP0093	5.25" 640K SCSI Floppy Disk.....	395	256
IP0113	SCSI Floppy Interface & cables .....	695	451
IP0100	120M bytes 1/4" Streaming Tape Drive .....	1,995	1296
IP0101	SCSI/QIC-36 Interface for Tape Drives .....	895	581
SU0051	150 Watt PSU for 640.....	395	256
SU0049	400 Watt PSU for 660 .....	995	646
IP0098	440 to 640 chassis upgrade (sheetmetal).....	395	256
IP0099	460 to 660 chassis upgrade (sheetmetal).....	395	256

## 400 SERIES SPARE PARTS LIST

Common Parts

Part#	Description	Retail	Reseller
BC0001A	FLOPPY DISK CONTROLLER .....	\$ 18.00	11.50
BC0006D	TRIPLE COUNTER TIMER .....	35.00	22.50
BC0017F	SAGE EPROM SET 2.4.....	26.00	16.50
BC0019A	MICROPROCESSOR, 68000, 10MHz .....	104.00	67.50
BC0022A	DUART, MOTOROLA 68681.....	22.50	14.50
BC0035C	EPROM, 16K X 8, 3.11 ODD .....	19.00	12.00
BC0036C	EPROM, 16K X 8, 3.11 EVEN.....	19.00	12.00
BC0038A	MICROPROCESSOR 68020 12MHz PIN GRID ARRAY .....	795.00	516.00
BC0039A	FPU, MOTOROLA 68881, 12MHz, PIN GRID ARRAY .....	595.00	386.50
BD0010C	BD, ASSEMB, BACKPLANE, 6-POS, REV C.....	245.00	159.00
BD0011C	BD, ASSEMB, BACKPLANE, 3-POS, REV C.....	87.00	56.50
BD0012B	PCB, ASSEMB, BACKPLANE, 2-POS, REV B .....	74.00	48.00
BD0016B	GRAPHICS BOARD .....	395.00	305.00
BD0052A	WIN, 12MHz, NO RAM, WITH QIC-02.....	2000.00	1300.00
BD0056A	MEMORY BOARD, SOCKETS (NO RAM) SERIAL PORTS .	895.00	747.00
BD0057A	PORT BOARD, NO RAM SOCKETS, SERIAL PORTS .....	795.00	516.50
BD0059A	CPU REV B, 1M, 10MHz, NO LAN .....	2545.00	1654.00
BD0062A	CPU, REV B, 1MEG, 12MHz, NO LAN .....	2545.00	1654.00
BD0067A	MMU BOARD, REV B, 68010 10MHz, ASSEMBLED .....	650.00	422.50
BD0085A	CPU, REV D, 1MEG, 12MHz .....	2545.00	1667.00
BD0088A	68020 ACCELERATOR, NO/68881 FPU, FOR 400 SERIES.	1795.00	1166.50
CA0009A	110 VOLT AC POWER CORD .....	7.50	4.50
CA0016A	220 VOLT AC POWER CORD .....	9.00	5.50

CC0101C	460 HARNESS W/COMPOWER .....	20.50	13.00
CC0143B	460 DATA CABLE/WINCHESTER.....	24.50	15.50
CC0144B	460 FLOPPY CONTROL/DATA.....	33.00	21.00
CC0145D	460 MULTI WIN CONTROL.....	62.50	40.50
CC0146B	460 CONTROL CABLE/ONE WIN.....	31.50	20.00
CC0147B	QIC02 CONTROLLER/TAPE 50 COND CABLE.....	38.50	25.00
CC0148A	420 FLOPPY CONTROL/DATA.....	31.50	20.00
CC0149B	440 FLOPPY/ONE CABLE .....	21.00	13.50
CC0150B	440 FLOPPY/TWO CABLE .....	32.50	21.00
CC0151B	440 DATA CABLE/WINCHESTER.....	10.00	6.50
CC0152B	440 CONTROL CABLE/WIN.....	28.50	18.50
CC0153B	440 Q02 TAPE CONTROL/DATA .....	40.00	26.00
CC0154B	440 Q02 FORMATTER CABLE .....	41.50	26.50
CC0155F	420 HARNESS (ECO 10211) .....	95.00	61.50
CC0161A	440 WIRE HARNS CONDOR P/S.....	22.00	14.00
CC0163A	460 WIR HARN 2 PS/CONDOR..... REPLACES CC0162 & CC0168	7.00	4.50
CC0166B	440 WIRING HARNESS LG FAN.....	18.50	12.00
CC0167C	460 WIRING HARNESS 24V FAN.....	21.50	13.50
CC0169A	6" TERM JUMPER GRAPHICS .....	2.50	1.50
CC0174A	24V FAN PIGTAIL STR 460.....	2.00	1.00
CC0179B	440 HARNESS 65W/POWER SUPPLY.....	50.00	32.50
CN0031A	4-PIN MODULAR PHONE JACK .....	2.50	1.50
CN0032A	96-PIN MALE VME BUS HEADER .....	10.00	6.50
DI0000A	LED, RIGHT ANGLE, BICOLOR .....	4.00	2.50
IPO077A	QIC-02 CHIP KIT.....	26.00	17.00
SU0014A	40M bytes HARD DRIVE QUANTUM .....	3052.00	1983.50
SU0021A	STREAMING TAPE DRIVE/ARCHIVE .....	1995.00	1296.50

SU0025A	STR 440, 420/12V FAN ASSY .....	34.00	22.00
SU0029A	TEAC FD55F-03U FLOPPY DR .....	495.00	322.00
SU0030A	PS, 140W, CONDOR, 440, 460 .....	195.00	126.00
SU0032A	20M bytes SEAGATE ST225 HALF HEIGHT.....	895.00	595.00
SU0033A	440/460 FAN ASSEMBLY .....	32.50	21.00
SU0037A	140M bytes MAXTOR XT2140 DRIVE.....	5495.00	3571.00
SU0039A	87M bytes TOSHIBA MK56 DRIVE .....	2395.00	1556.00
SU0040A	43M bytes TOSHIBA MK53FB DRIVE.....	1995.00	1296.00
SU0041A	60M bytes TOSHIBA MK54FB DRIVE.....	2095.00	1361.00
SU0042A	PS, 80W, CONDOR .....	595.00	387.00
SU0043A	5.25" 640K TOSHIBA FLOPPY DRIVE.....	395.00	256.00
SU0049A	460 PS 440W 5V@50A POWER ONE .....	995.00	647.00
SU0051A	440 PS 150W POWER ONE 5V@15A 12V@4A 8A-PK .....	395.00	256.00
SU0069A	190M bytes MAXTOR DRIVE XT2190 .....	4395.00	2856.00
SW0006A	SWITCH, POWER, CURVETT ROCKER.....	3.00	1.50
WC0000A	64K X 1, 150NS DRAM .....	4.50	2.50
WC0002A	RS-232 XMIT BUFFER .....	0.50	0.50
WC0003A	RS-232 RECEIVER BUFFER .....	0.50	0.50
WC0008A	16MHz CRYSTAL OSCILLATOR .....	14.00	9.00
WC0010A	20MHz CRYSTAL OSCILLATOR .....	16.50	10.50
WC0022F	DELAY LINE, CPU, 10MHz, WITH/WITHOUT MMU .....	48.50	31.50
WC0086A	256K X 1, 120NS, DRAM .....	25.00	16.50

## 600 SERIES SPARE PARTS LIST

Common Parts  
See also Upgrade List

Part#	Description	Retail	Reseller
BC0045	68020 16MHz MICROPROCESSOR PIN GRID .....	\$ 795.00	516.50
BC0056	FIFO 512 X 9, W/HALF EMPTY FLAG.....	20.00	13.00
BD0091	MSBC CPU BOARD 2M .....	10495.00	6821.00
BD0092	SCSI FLOPPY CONTROLLER .....	900.00	585.00
BD0105	8 PORT SERIAL SKY BOARD .....	1195.00	776.00
CN0032	96-PIN, MALE, RIGHT ANGLE, PCB MOUNT.....	10.00	6.50
CN0083	CONN. JACK, 6-POS. MODULAR PHONE.....	2.50	1.50
DD0001	101M/80M bytes SCSI HARD DISK .....	2395.00	1556.00
DD0002	173M/152M bytes SCSI HARD DISK .....	3395.00	2206.00
DD0004	280M/244M bytes SCSI HARD DISK .....	6595.00	4286.00
DD0006	121M/100M bytes SCSI HARD DISK .....	2895.00	1881.00
DD0007	86M/72M bytes SCSI HARD DISK.....	2595.00	1686.00
DI0000	LED, RIGHT ANGLE, BI-COLOR.....	4.00	2.50
FD0001	3.5" SCSI FLOPPY (MITSUBISHI).....	295.00	191.00
IP0100	120M bytes 1/4" STREAMING TAPE DRIVE .....	1995.00	1296.00
IP0111	600 SERIES SERIAL PORT KIT (RECOMMENDED).	95.00	61.00
SU0049	440 WATT PSU FOR 660 .....	995.00	646.00
SU0051	140 WATT PSU FOR 640 .....	395.00	256.00
WC0026	BATTERY 3-CELL NICAD .....	17.00	11.00
WC0029	CRYSTAL, 3.6864MHz, HC18U SERIES .....	2.50	1.50
WC0030	CRYSTAL, 32.768KHz, WATCH SIZE.....	1.00	0.50
WC0089	DELAY LINE, 020, RAS CAS 10 42 75 115 .....	61.50	39.50
WC0090	OSC, XTAL, 32.MHz 14-PIN DIP.....	14.50	9.00



WC0213	SCSI INTERFACE PLCC-44 .....	105.50	68.50
WC0215	REAL-TIME CLOCK/CALENDAR .....	16.00	10.00
WC0219	OSC. STAL 40MHz 14-PIN DIP.....	20.50	13.00
WC0230	DRAM, 1M X 8, 100NS, SIMM-30 .....	1300.00	812.00

*Refer to the cable list for terminal cables.*