














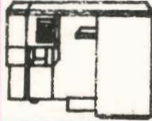












PERIPHERALS CONFIGURATION GUIDE

Discs						
Tapes						
Printers						
Plotters						
Tablets						

August 1986
Peripherals Group Marketing
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PERIPHERAL CONFIGURATION GUIDE

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HP 9000 Series 200, 300, & 500 Information

For information regarding the HP 9000 Series 200, 300, and 500 not contained in this publication, order the following configuration and product information guides. For further questions, contact the Sales Center, (303) 229-2600, at Ft. Collins Systems Division.

Series 200 — 09800-90020

Series 300 — 09561-90020

Series 500 — 09050-90050

★ ★ ★ For Internal Use Only ★ ★ ★

This document is for Hewlett-Packard Internal Use Only. The purpose of the Peripheral Configuration Guide is to serve as a reference document when configuring HP peripherals onto HP and non-HP Computer Systems. Although every effort is made to ensure that the information contained on the following pages is accurate and up-to-date, the possibility of error should not be overlooked. We have no reason to believe the information is inaccurate; however, remember this guide is intended as a reference document only.

PERIPHERAL CONFIGURATION GUIDE

workstation discs						
system discs						
tape drives						
workstation printers						
system printers						
plotters						
tablets						

HP250

HP260

HP3000



COMMERCIAL SYSTEMS

COMBINATIONS		DISC DRIVE			HOST		
Host	Disc Drive	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes
HP 3000 Series 30/33	9895A† Opt 010	1 Maximum	HP-IB	None	GIC (30079A) 45529 HP-IB Cable (or 10833)	MPE	
HP 3000 Series 37/37XE	9895A† Opt 010 9144A	9895A #010: 1 Maximum 9144A: 2 Maximum	HP-IB	None	PIC (Does not require a dedicated PIC) 30459A 10833 HP-IB Cable	MPE-V/E T-MIT (G.01.00)	
HP 3000 Series 40/40SX, 44/64, 39/42/48/68	9895A† Opt 010 9144A	9895A #010: 1 Maximum 9144A: 4 Maximum	HP-IB	None	GIC (30079A) 45529 HP-IB Cable (or 10833) 9144A requires 30079A	9144A:MPE-V/E T-MIT	39/40/40SX/42 W/9144A: Cold Load with CPS-E Microcode Only 6x not supported for Cold Load with 9144A. 64/68 with 9144A: Cannot be on the same GIC as System Disc or Cold Load Device.
HP 250 HP 260	9133D/H/L 9134D/H/L 9895A†	4 Maximum	HP-IB	None	10833 A/B HP-IB Cable	All require Op Sys B.07.00 except 9895A.† Any "B" Op. Sys. will work with the 9895A. 9134D/H/L requires addition of "Update" ROM.	Up to 3 standalone disc drives may be added to a disc/backup device.

†The 9895A will be discontinued 8/1/86.

Workstation Discs _____ Commercial Systems

COMBINATIONS		DISC DRIVE			HOST		
Host	Disc Drive*	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes
HP 3000 Series 30, 48, 68	No discontinued discs supported						
HP 250	9134XV	1 Maximum	HP-IB	None — Order 10833A/B HP-IB Cable	PIC (Included with system, except on Models 20, 25, and 26)	Requires Op Sys B.06.01 or later	Not supported as an O/S load device except on B.07.00

*9134XV is no longer in production. Support life ends 7-1-90.

Discontinued Workstation Discs _____ Commercial Systems

COMBINATIONS		SYSTEM DISC			SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
250	7906M††	1 Maximum	102	Multi-unit and Data Cable Internal 10833B (HP-IB) 2 m	HP-IB	Sent with Master Disc	2 m	
	7906S††	1 Maximum	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m				
	7906H††	2 Maximum	None	10833B (HP-IB) 2 m				
250 260	7980P† 7911P 7912P	4 Maximum	None	10833B (HP-IB) 2 m 10833A (HP-IB) 1 m** 10833A (HP-IB) 1 m**	HP-IB	Sent with Disc	2 m	Requires Op Sys 4 or greater
	7941A 7942A 7945A/AR 7946A	4 Maximum	None	10833B (HP-IB) 1 m	HP-IB	Sent with Disc	2 m	B.07 (or greater) operating system is required. To use the 794X as a load device a firmware upgrade (452650) is required.
	4 Total							
300	7906M/MS†† 7920M/MR††† 7925M/MR†††	1 Maximum	102	Multi-Unit & Data Cable Internal 10833B (HP-IB) 2 m	HP-IB	Sent with Master Disc	2 m	
	7906S/SS†† 7920S/SR††† 7925S/SR†††	2 Maximum	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m				
	3 Total							

*Note: Special cable lengths are available. See Accessories List, Appendix B.

**7911/12 include the equivalent of 1 m HP-IB cable internally.
(Must consider for configuration; i.e. HP-IB loading requirements.)

†Product no longer in production. Seven-year support life ends 2-1-92.

††Product discontinuance announced. End of production 10-1-86.
Remarketed products available from FRD.

†††Product discontinuance announced. End of production 6-1-86.
Remarketed products available from FRD.

System Discs

Commercial Systems

COMBINATIONS		SYSTEM DISC			SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
3000 Series III/IIIR†	7920M/MR†† 7925M/MR††	1 Maximum	None	Multi-unit and Data Cable Internal	30229B	Sent with I/F Card	5.5 m (18 ft)	
	7920S/SR†† 7925S/SR††	7 Maximum	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m				
	7933H/HR**	4 Maximum	Needs Starfish	10833B (HP-IB) 1 m	30341A (Discontinued — Supported but not available for purchase) (Maximum 8 loads/GIC) 7933 = 1 load 2680 = 3 loads 7976 = 2 loads	Sent with Disc		MPE III or MPE IV
		12 Total						

Note: Special cable lengths available. See Accessories List, Appendix B.

* Not supported as the primary system disc (LDEV1) Must have MAC family master disc configured as system disc.

† System no longer in production. Remarketed products available from FRD.

†† Product discontinuance announced. End of production 6-1-86. Remarketed products available from FRD.

System Discs _____ Commercial Systems

COMBINATIONS		SYSTEM DISC			SYSTEM				
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements	
3000 Series 30/30R 33/33R†	7911P 7912P	1*** Maximum	001	10833A (HP-IB) 1 m**	2 GIC's — Dedicated GIC — Cartridge Tape	Sent with Disc		Either 1/2" mag tape or serial disc for backup	
	7911P 7912P Option 140	3*** Maximum	140	10833A (HP-IB) 1 m**	GIC	Sent with Disc			
	7933H/HR	3*** Maximum	None	10833A (HP-IB) 1 m	GIC	Sent with Disc			
	(Combining 791X & 7933)	3 Subtotal							
	7906M/MS†† 7920M/MR††† 7925M/MR†††	1 Maximum	102	Multi-unit and Data Cable Internal 10833B (HP-IB) 2 m	GIC (8 Drives/GIC)	Sent with Disc	2 m		
	7906S/SS†† 7920S/SR††† 7925S/SR†††	7 Maximum	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m					
	Combining 7906/20/25	8 Subtotal							
		8 Total							

* Note: Special cable lengths available. See Accessories List, Appendix B.

** 7911/12 include the equivalent of 1 m HP-IB cable internally. Must consider for configuration; i.e., HP-IB loading requirements.

*** Note: Add-on disc only. Not supported as system disc.

† System no longer in production. Seven-year support life ends 2-1-92.

†† Product discontinuance announced. End of production 10-1-86. Remarketed products available from FRD.

††† Product discontinuance announced. End of production 6-1-86. Remarketed products available from FRD.

COMBINATIONS		SYSTEM DISC			SYSTEM		
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	System Requirements
3000 Series 37	7912P 7914P/PR 7914ST‡ 7914CT‡‡	4 Maximum 4 Maximum 2 Maximum 2 Maximum	140 140 Std Std	10833A (HP-IB) 1 m	PIC — 30459A	Sent with Disc	Mag tape required with over 220 Mbyte on-line MPE V/E T-MIT
	7933R/35R	4 Maximum	Std				
	7945AR	4 Maximum	Std				
	Combining 791X/793X/7945	8 Maximum					

‡ 7914ST conforms to configuration limitations of 7914P/R and the 7974 with its own set of option numbers. Note also that each device in the 7914ST package has its own separate HP-IB cabling.
‡‡ 7914CT conforms to configuration limitations of 7914P/R and the 9144A with its own set of option numbers. Note also that each device in the 7914CT package has its own separate HP-IB cabling.

System Discs _____ Commercial Systems

COMBINATIONS		SYSTEM DISC			SYSTEM		
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	System Requirements
3000 Series 39, 40/40R, 42/42R, 44/44R, and 48/48R,	7911P 7912P 7914P	1 Maximum	001	10833A (HP-IB) 1 m**	GIC (Opt 001 requires 2 GIC's — Tape requires dedicated GIC)	Sent with Disc	Mag tape required with over 132 Mbyte on-line
	7914TD/TR†/ST‡		002	(See Data Sheet)		Sent with Disc & Tape Drive	
	7911P 7912P	4 Maximum	140	10833A (HP-IB) 1 m**	GIC	Sent with Disc	
	7914P/PR 7914TD/TR*† 7914ST‡	8 Maximum 1 Maximum 4 Maximum	140 Std	10833A (HP-IB) 1 m (See Data Sheet)	GIC GIC	Sent with Disc Sent with Disc and Tape Drive	
	7914CT††	4 Maximum		(See Data Sheet)	GIC (Can be shared by disc and tape)	Sent with Disc and Tape Drive	Requires MPE-V/E T-MIT. Requires CPS-E microcode when used as a cold load device. Mag tape required with over 200 Mbytes on-line.

** 7911/12/14 include the equivalent of 1 m cable internally. Must consider for configuration; i.e., HP-IB loading requirements.

† 7914TD conforms to configuration limitations of 7914P/R and 7970E with its own separate set of option numbers (see 7914TD Data Sheet). Note also that each device in the 7914TD package has its own separate HP-IB cabling.

‡ 7914ST conforms to configuration limitations of 7914P/R and the 7974A with its own set of option numbers. Note also that each device in the 7914ST package has its own separate HP-IB cabling.

†† 7914CT conforms to configuration limitations of 7914P/R and the 9144A with its own set of option numbers. Note also that each device in the 7914CT package has its own separate HP-IB cabling.

* Product no longer in production. Ten-year support life ends 11-1-92. Remarketed products available from FRD.

COMBINATIONS		SYSTEM DISC			SYSTEM		
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	System Requirements
3000 Series 39, 40/40R, 42/42R, 44/44R, and 48/48R,	7920M/MR† 7925M/MR†	2 Maximum	102	Multi-unit and Data Cable Internal 10833A (HP-IB) 2 m	GIC 8 drives/GIC	Sent with Master Disc	
	7920S/SR† 7925S/SR†	7 Maximum 1 Master/ 7 Slaves	Master Disc Required	13013B-003* (Multi-unit) 2.4 m 13213B-002* (Data) 15.2 m			
	7920/25†	8 Subtotal					
	7933H/HR 7935H/HR	8 Maximum	None	10833A (HP-IB) 1 m	GIC 6 Drives/GIC	Sent with Disc	
	7945A/AR	4 Maximum	None	10833A (HP-IB) 1 m	GIC	Sent with Disc	MPE-V/E T-MIT
	Combining 791X/792X/ 793X/7945	8 Total			Maximum 6 drive controllers/GIC Maximum 2 high speed GIC's		Note: Observe HP-IB loading requirements

* Note: Special cable lengths available. See Accessories List, Appendix B.

† Product discontinuance announced. End of production 6-1-86. Remarketed products available from FRD.

System Discs _____ Commercial Systems

COMBINATIONS		SYSTEM DISC			SYSTEM		
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	System Requirements
3000 Series 40, 48, and 58	7911P 7912P 7914P/PR	1 Maximum	001	10833A (HP-IB) 1 m**	GIC (Opt 001 requires 2 GIC's — Tape requires dedicated GIC)	Sent with Disc	Mag tape required for backup
	7914TD*TR*ST†‡		002	(See Data Sheet)		Sent with Disc & Tape Drive	
	7911P 7912P	4 Maximum	140	10833A (HP-IB) 1 m**	GIC	Sent with Disc	
	7914P/PR	8 Maximum					
	7914TD*TR 7914ST†‡	2 Maximum 4 Maximum	STD	(See Data Sheet)	GIC	Sent with Disc and Tape Drive	
	7914CT‡‡	4 Maximum		(See Data Sheet)	GIC (Can be shared by disc and tape)	Sent with Disc and Tape Drive	Requires MPE-V/E T-MIT. Mag tape required for backup.

** 7911/12/14 include the equivalent of 1 m cable internally. Must consider for configuration; i.e., HP-IB loading requirements.

† 7914TD conforms to configuration limitations of 7914P/R and 7970E with its own separate set of option numbers (see 7914TD Data Sheet). Note also that each device in the 7914TD package has its own separate HP-IB cabling.

‡ 7914ST conforms to configuration limitations of 7914P/R and the 7974A with its own set of option numbers. Note also that each device in the 7914ST package has its own separate HP-IB cabling.

‡‡ 7914CT conforms to configuration limitations of 7914P/R and the 9144A with its own set of option numbers. Note also that each device in the 7914CT package has its own separate HP-IB cabling.

* Product no longer in production. Ten-year support life ends 11-1-95. Remarketed products available from FRD.

COMBINATIONS		SYSTEM DISC			SYSTEM		
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	System Requirements
3000 Series 41, 48, and 58	7920M/MR† 7925M/MR†	2 Maximum	102	Multi-Unit and Data Cable Internal 10833A (HP-IB) 2 m	GIC Maximum 16 drives/GIC	Sent with Master Disc	
	7920S/SR† 7925S/SR†	14 Maximum 1 Master/ 7 Slaves	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m			
	7920/25†	16 Subtotal					
	7933H/HR 7935H/HR	8 Maximum	None	10833A (HP-IB) 1 m	6 Drives/GIC	Sent with Disc	
	7945A/AR	4 Maximum	None	10833A (HP-IB) 1 m	GIC	Sent with Disc	MPE-V/E T-MIT
	Combining 791X/792X/ 793X/7945	16 Total			Maximum 6 drive controllers/GIC Maximum 2 high speed GIC's		Note: Observe HP-IB loading requirements

* Note: Special cable lengths available. See Accessories List, Appendix B.

† Product discontinuance announced. End of production 6-1-86. Re marketed products available from FRD.

System Discs _____ Commercial Systems

COMBINATIONS		SYSTEM DISC			SYSTEM		
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	System Requirements
3000 Series 68 and 70	7911P 7912P 7914P/PR	1 Maximum	001	10833A (HP-IB) 1 m**	GIC (Opt 001 requires 2 GIC's — Tape requires dedicated GIC)	Sent with Disc	Mag tape required for backup
	7914TD*†/TR/ST‡		002	(See Data Sheet)		Sent with Disc & Tape Drive	
	7911P 7912P	1 Maximum	140	10833A (HP-IB) 1 m**	GIC	Sent with Disc	Mag tape required for backup
	7914P/PR	8 Maximum					
	7914TD/TR*† 7914ST‡	2 Maximum 4 Maximum	STD	(See Data Sheet)	GIC	Sent with Disc and Tape Drive	
	7914CT‡‡	4 Maximum		(See Data Sheet)	GIC (Can be shared by disc and tape)	Sent with Disc and Tape Drive	Requires MPE-V/E T-MIT. Mag tape required for backup.

** 7911/12/14 include the equivalent of 1 m cable internally. Must consider for configuration; i.e., HP-IB loading requirements.

† 7914TD conforms to configuration limitations of 7914P/R and 7970E with its own separate set of option numbers (see 7914TD Data Sheet). Note also that each device in the 7914TD package has its own separate HP-IB cabling.

‡ 7914ST conforms to configuration limitations of 7914P/R and the 7974A with its own set of option numbers. Note also that each device in the 7914ST package has its own separate HP-IB cabling.

‡‡ 7914CT conforms to configuration limitations of 7914P/R and the 9144A with its own set of option numbers. Note also that each device in the 7914CT package has its own separate HP-IB cabling.

* Product no longer in production. Ten-year support life ends 11-1-95. Remarketed products available from FRD.

COMBINATIONS		SYSTEM DISC			SYSTEM		
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	System Requirements
3000 Series 68 and 70	7920M/MR† 7925M/MR†	16 Maximum	102	Multi-Unit and Data Cable Internal 10833A (HP-IB) 2 m	Maximum 6 Master/GIC; Up to 16 Drives/GIC	Sent with Master Disc	
	7920S/SR† 7925S/SR†	14 Maximum 1 Master/ 7 Slaves	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m			
	7920/25†	16 Subtotal					
	7933H/HR 7935H/HR	16 Maximum (24 max)***	None	10833A (HP-IB) 1 m	GIC 6 Drives/GIC	Sent with Disc	
	7945A/AR**	4 Maximum	None	10833A (HP-IB) 1 m	GIC	Sent with Disc	MPE-V/E T-MIT
	Combining 791X/792X/ 793X/7945	16 Total (24 total)***			Maximum 6 drive controllers/GIC Maximum 4 high speed GIC's (16 total) Maximum 6 high speed GIC's (24 total)***		Note: Observe HP-IB loading requirements

* Note: Special cable lengths available. See Accessories List, Appendix B.

** Can't share a GIC with system disc (Ldev1) or cold load drive; cannot be used as a system disc.

*** With two I/O bays; maximum of 16 of either the 7933 or 7935 is supported; can add eight of the other model.

† Product discontinuance announced. End of production 6-1-86. Re-marketed products available from FRD.



COMBINATIONS		TAPE DRIVE			HOST		NOTES
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive	System Interface	System Requirements	
3000 Series III/IIIR	7970B 7970BR **	8	Parallel Differential	Initial Drive: 30215A 20 ft Add-on: Multi-unit 20 ft	30215A	Maximum 4 drives per Interface Controller	There are no 7970B slaves
	7970E 7970ER **	8	Parallel Differential	Initial Drive: 30215A 20 ft Add-on: Multi-unit 20 ft Slave: Multi-unit 20 ft	30215A	Maximum 4 drives per Interface Controller	Each master can control up to 3 slaves
	7976A 7976AR *	1	HP-IB	HP-IB 2 m	30341A & 30079A (GIC)	Requires 30341A Starfish Interface	Must have 7970B/E for CPU diagnostics & memory dump facility
	Combining 797X	9 total					
3000 Series 30/30R 33/33R	7970E 7970ER **	4	HP-IB	Master: HP-IB 6 m 19 ft Slave: Multi-unit 20 ft	30079A	Maximum requires dedicated GIC	Maximum configuration equals one master with three slaves
	7976A 7976AR *	1	HP-IB	HP-IB 2 m	30079A	There are no 7976A slaves	Shipped with 2 HP-IB loads variable from 1-4 loads 2 m internal cable
	Combining 797X	4 total					

*7976A/AR is no longer in production. Five-year support life ends 8-1-90.

**7970B/BR/E/ER product discontinuance announced. End of production 11-1-86. Remarketed products available from FRD.

COMBINATIONS		TAPE DRIVE			HOST		NOTES	
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive		System Interface	System Requirements	
3000 Series 37	7974A*	2	HP-IB	HP-IB	2 m	30459A	MPE V/E T-MIT When combining with 7978A/B, 2 units max total	Shipped with 1 HP-IB load variable from 1-4 loads 1 m internal cable.
	7978A/B	2	HP-IB	HP-IB	2 m	30459A	MPE V/E T-MIT When combining with 7974A, 2 units max total	Shipped with 1 HP-IB load variable from 1-4 loads 0 m internal cable.
	35401A	2	HP-IB	HP-IB	1 m	30459A	MPE V/E U-MIT with Patch #M009	Sequential mode only. Not supported as primary backup device above 504 Mbytes.
	9144A**	2	HP-IB CS80	HP-IB cable supplied when ordering 32449. HP-IB cable not supplied when ordering 32450 (37XE)		30459A	MPE V/E T-MIT	When combining with 35401A, max 2 units per system.

*9144A on Series 37 — Backup limit set to 132 Mbytes with 1/2 Mbyte of main memory and 220 Mbytes with 1 Mbyte of main memory.

**Remarked products available from FRD.

Tape Drives _____ **Commercial Systems**

COMBINATIONS		TAPE DRIVE			HOST		NOTES	
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive		System Interface	System Requirements	
3000 Series 39/40/42	7970ER**	4	HP-IB	Master: HP-IB 6 m 19 ft Slave: Multi-unit 20 ft		30079A	Master requires dedicated GIC	Maximum configuration equals one master with three slaves
	7974A†	4	HP-IB	HP-IB 2 m		30079A	MPE IV Q Delta 2 plus site specific patch tape or MPE V/E or MPE V/P plus directory fix. High speed device — does not require dedicated GIC	Shipped with 1 HP-IB load variable from 1-3 loads 1 m internal cable
	7976A 7976AR	2	HP-IB	HP-IB 2 m		30079A	There are no 7976A slaves	Shipped with 2 HP-IB loads variable from 1-4 loads 2 m internal cable
	7978A/B	4	HP-IB	HP-IB 2 m		30079A	MPE V/P Delta 1 (or later) or MPE V/E (7978A) or MPE V/E T-MIT or later (7978B). High speed device — does not require dedicated GIC	Shipped with 1 HP-IB load variable from 1-3 loads 0 m internal cable
	Combining 797X	4 total						
	9144A†	4	HP-IB CS80	No cable provided with tape drive. Must be ordered separately.		30079A	MPE V/E T-MIT required on 40/42, cold load with CPSE microcode only.	When combining with 35401A, max 4 units per system.
	35401A	2	HP-IB	HP-IB 1 m		30079A	MPE V/E U-MIT with Patch #M009	Sequential mode only. Not supported as primary backup device above 504 Mbytes.

See Appendix A for option numbers and cabinet styles.

*7976A/AR are no longer in production. Five-year support life ends 8-1-90.

**7970B/BR/E/ER product discontinuance announced. End of production 11-1-86. Remarketed products available from FRD.

†Remarketed products available from FRD.

COMBINATIONS		TAPE DRIVE			HOST		NOTES	
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive		System Interface	System Requirements	
3000 Series 44/48 58 64/68/70	7970E 7970ER **	8	HP-IB	Master: HP-IB 6 m 19 ft Slave: Multi-unit 20 ft		30079A	Master requires dedicated GIC	Maximum configuration equals two masters with six slaves
	7974A†	4	HP-IB	HP-IB 2 m		30079A	MPE IV Q Delta 2 plus site specific patch or MPE V/E or MPE V/P plus directory fix. For use as system cold load device, see note below.# High speed device — does not require dedicated GIC	Shipped with 1 HP-IB load variable from 1-3 loads 1 m internal cable
	7976A 7976AR *	2	HP-IB	HP-IB 2 m		30079A	There are no 7976A slaves	Shipped with 2 HP-IB loads variable from 1-4 loads 2 m internal cable
	7978A/B	4	HP-IB	HP-IB 2 m		30079A	MPE V/P Delta 1 (or later) or MPE V/E (7978A) V/E T-MIT or later (7978B) For use as system cold load device, see note below.# High speed device — does not require dedicated GIC	Shipped with 1 HP-IB load variable from 1-3 loads 0 m internal cable
	Combining 797X	8 total						
	9144A†	4	HP-IB CS80	No cable provided with tape drive. Must be ordered separately.		30079A	MPE V/E T-MIT required	See notes below# When combining with 35401A, 4 units max total per system.
	35401A	2	HP-IB	HP-IB 1 m		30079A	MPE V/E U-MIT with Patch #M009	See notes 1 thru 6 below.

*7976A/AR are no longer in production. Five-year support life ends 8-1-90.

**7970B/BR/E/ER product discontinuance announced. End of production 11-1-86. Remarketed products available from FRD.

#Does not require a dedicated GIC.

#Not supported as a cold load device on 44/48.

#Cannot be placed on same GIC as system disc (64/68 only).

†Remarketed products available from FRD.

Note: Series 64/68 systems shipped before March 1, 1984 require a DCU firmware upgrade (DCU ROM Revision 2403 or greater) to use a 7974A or 7978A as a cold load device. See Service Notes 32460A-12 and 32460B-7.

1. Sequential mode only.

2. Does not require a dedicated GIC.

3. Not supported as primary backup device above 504 Mbytes.

4. Not supported as a cold load device on 64/68/70.

5. Cannot be placed on same GIC as system disc on 64/68/70.

6. 4 units max per system when combining with 9144A. No more than 2-35401A.

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 250 HP 260	2601A*/AR	Std	RS-232-C	2601A Cable	ASI Board Std on HP 250 and optional on HP 260	Included with printer	Op Sys B.04 or greater	RS-232-C cable used for either local or modem connection
	2602A*/AR	Std	RS-232-C	None	ASI Board Std on HP 250 and optional on HP 260	13242N/M	Op Sys B.05 or greater	RS-232-C cable used for either local or modem connection
	2603A	Std	RS-232-C	None	ASI Board Std on HP 250 and optional on HP 260	13242N/M	Op Sys B.07 or greater	RS-232-C cable used for either local or modem connection
	2934A/AR	046	HP-IB	None	HP-IB Std on HP 250 and HP 260	10833A or B	Op Sys B.06 or greater	2392A HP-IB not supported on HP 260 system
	2932A/AR 2934A/AR	Std	RS-232-C	None	ASI Board Std on HP 250 and optional on HP 260	13242N/M	Op Sys B.06 or greater	—
	2932A/AR 2934A/AR	035	RS-422-A	None	ASI Board optional on HP 260	45114A Cable & RS-422-A Cabling	Op Sys B.06 or greater	RS-422-A I/F only supported on HP 260 system
	2225D(X)	Std	RS-232-C	None	ASI Board Std on HP 250 and optional on HP 260	13242N/M	Op Sys B.07 or greater	—
	82905B*	Std	RS-232-C	None	ASI Board Std on HP 250 and optional on HP 260	8120-3258	Op Sys B.05 or greater	RS-232-C cable used for either local or modem connection
HP 3000 All Series	2601A*/AR	Std	RS-232-C Direct connect only	2601 Cable	ATC on Series III ADCC or ATP as appropriate on other series	Comes with 2601A	2601A and 2602A must use modem-capable port on ATP	2601A and 2602A cannot operate spooled except with HPWord
	2602A*/AR			None		Order 13242N		2601A and 2602A cannot operate under modem control (even on modem-capable ATP port)

*Product is discontinued. Shown for reference only. 2601A, 2602A, 82905B taken off the C.P.L. 11/01/85.
Note: "AR" versions are remarketed products available from FRD.

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 3000 Series 30 thru 68	2932A/AR 2934A/AR	Std	RS-232-C Direct Connect	None	ADCC (No ADCC on S/37 or S/68)	92219G	MPE IV or V	Spoiled (See Note 1)
		Std	RS-232-C Direct Connect	None	ATP (ATP/37 for Series 37)	13242X (3-pin connector)	MPE IV or V (MPE V(E) T-MIT-G01.00 Needed for Series 37)	Spoiled (See Note 1)
		Std	RS-232-C Modem	None	ADCC (No ADCC on S/37 or S/68)	92219G	MPE IV or V	Spoiled (See Note 1)
		035	RS-422-A Direct Connect	None	ATP (No RS-422-A on Series 37)	13242P	MPE IV or V	Spoiled (See Note 1)
HP 3000 Series 39 thru 68	2934A/AR Only	034	MTS NTH Device (Daisy Chain)	Yes	MTS-Datalink Connection or MTS-Synchronous Modem Link	Highly Configuration Dependent	MTS & MPE V	2934A only Requires MTS Version A.07.00 or A.57.00 or later (See Note 1)
		039	MTS Data Link					
HP 3000 Series 37, 39, 4X, 5X, 6X	2603A	Std	RS-232-C Direct Connect Only	None	ADCC or ATP (25-pin)	13242Y	Check 2603A Printer Owner's Manual for proper configuration	Spoiled
					ATP (3-pin)	13242X		

Note 1: Printer graphics supported on HP 3000 only when printer is slaved to a graphics terminal — in this case the printer is no longer spoiled.

Note 2: "AR" versions are remarketed products available from FRD.

Workstation Printers _____ **Commercial Systems**

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 250	2563A	049	RS-232-C	None	Asynchronous Interface (ASI Board)	13242M/N	B.06.01 Release or later of Operating System	
		250	HP-IB	10833B HP-IB 2 m	HP-IB Interface supplied as standard on Models 30, 40, 50	Supplied with Printer	B.06.01 Release or later of Operating System	
HP 250	LaserJet 2686A	None	RS-232-C	None	Asynchronous Interface (ASI Board)	13242M/N	B.07 Release of Operating System	
	LaserJet Plus 2686A	300						
	2686D	None						
HP 250	2687A Discontinued 3/86	251	RS-232-C	None	Asynchronous Interface	13242M/N	B.06.01 Release of Operating System	

System Printers

Commercial Systems

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 260	2563A	049	RS-232-C	None	Asynchronous Interface (ASI Board) Optional on HP 260	13242M/N	B.06.01 Release of Operating System	
		250	HP-IB	10833B HP-IB 2 m	HP-IB Interface	Supplied with Printer	B.06.01 Release of Operating System	
HP 260	LaserJet 2686A	None	RS-232-C	None	Asynchronous Interface (ASI Board) Optional on HP 260	ASI 13242M/N	B.07 Release or later of Operating System	Asynchronous Interface Board (ASI Board) is ordered optionally on HP 260 Systems
	LaserJet Plus 2686A	300						
	LaserJet 500 Plus 2686D	None						
HP 260	2687A Discontinued 3/86	251	RS-232-C	None	Asynchronous Interface (ASI Board) Optional on HP 260	ASI 13242M/N	B.06.01 Release or later of Operating System	Asynchronous Interface Board (ASI Board) is ordered optionally on HP 260 Systems

System Printers _____ Commercial Systems

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 3000 Series III	2563A	300	Parallel Differential	None	30209A	26006A Option 300		For cables in excess of 50 feet, contact SMC. Maximum length is 500 feet
HP 3000 Series III	2608S Discontinued 11/85	055	HP Multipoint	None	INP	See DSN/MTS Reference Manual P/N 32193-90002	MIT C.00.20 (CIPER) MTS Version A.05.00 or later	
HP 3000 Series II & III	2611A 2619A Discontinued 1/85	300	Parallel Differential	30209-60004 50 ft	30209A	Supplied with Printer		For cables in excess of 50 feet, contact Boise Division. Maximum length is 500 feet
HP 3000 Series III	2680A	300	HP-IB	8120-3449 HP-IB 8 m	30341A (Starfish) No longer available	Supplied with Printer	FOS MIT C.00.20 (CIPER)	
HP 3000 Series III	2687A Discontinued 3/86							Not Supported
HP 3000 Series III	2688A							Not Supported
HP 3000 Series III	2565A 2566A Discontinued 5/86	300	Parallel Differential	None	30209A	26006A Option 300		For cables in excess of 50 feet, contact SMC. Maximum length is 500 feet

System Printers _____ Commercial Systems

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 3000 Series 30 & 33	2563A	333	HP-IB	10833C HP-IB 4 m	30079A GIC Available from CSY	Supplied with Printer	MPE IV-Q Delta 2	
HP 3000 Series 30 & 33	2608S Discontinued 11/85	333	HP-IB	10833C HP-IB 4 m	30079A GOC (High Speed) Available from CSY	Supplied with Printer	FOS MIT C.00.20 (CIPER) MTS Version A.05.00 or later	
		055	HP Multipoint	None	MTS Data Link Connection or MTS Synchronous Modem Link (INP)	See MTS Reference Manual P/N 32193-90002		
HP 3000 Series 30	2611A 2619A Discontinued 1/85	301	Parallel Differential	26069-60005 15 m	30079A GIC Available from CSY 26069 I/O included with Printer	Supplied with Printer		For cables in excess of 15 m, contact Boise Division. Maximum length is 500 feet
HP 3000 Series 33	2611A 2619A Discontinued 1/85	302	Parallel Differential	26069-60004 1 m in CPU 26069-60003 15 m	30079A GIC Available from CSY 26069 I/O included with Printer	Supplied with Printer		For cables in excess of 15 m, contact Boise Division. Maximum length is 500 feet
HP 3000 Series 30	2680A	301	HP-IB	8120-3449 8 m	30079A GIC Available from CSY	Supplied with Printer	FOS MIT C.00.20 (CIPER)	
HP 3000 Series 30 & 33	2680A	302	HP-IB	8120-3449 8 m	30079A GIC Available from CSY	Supplied with Printer	FOS MIT C.00.20 (CIPER)	
HP 3000 Series 30 & 33	2687A Discontinued 3/86							Not Supported
HP 3000 Series 30 & 33	2688A							Not Supported

System Printers _____ Commercial Systems

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 3000 Series 37	2563A 2564B	337	HP-IB	10833C HP-IB — 4 m	PIC	Supplied with Printer	T-MIT	
	2566B 2567B	337	HP-IB	10833C HP-IB — 4 m	30459A PIC Available from CSY	Supplied with Printer	T-MIT	
	2680A	337	HP-IB	8120-3449 HP-IB — 8 m	30459A PIC Available from CSY	Supplied with Printer	T-MIT	
	LaserJet 2686A	None	RS-232-C	None	ATP37	92218D (13242X)	T-MIT	
	LaserJet Plus 2686A	300						
	LaserJet 500 Plus 2686D	None						
	2687A Discontinued 3/86	340	RS-232-C	None	ATP37	Call Boise Division	T-MIT	
	2688A	340	HP-IB	8120-3349 HP-IB — 8 m	30459A PIC Available from CSY	Supplied with Printer	T-MIT	
	2565A 2566A Discontinued 5/86	337	HP-IB	10833C HP-IB — 4 m	30459A PIC Available from CSY	Supplied with Printer	MPE V/E	

System Printers

Commercial Systems

COMBINATIONS		PRINTER			HOST			NOTES	
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires		
HP 3000 Series 39/40/42/42XP	2563A	049	RS-232-C	None	ATP*	92218D	MPE IV-Q DELTA 2	Direct connect when used with 2333A and MTS	
	2564B				ADCC	92219G	MPE IV-Q DELTA 2		
	2563A only	049	RS-232-C	None	MTS Data Link Connector or MTS Synchronous Modem Link	92219G	MTS A.07.00 or A.57.00		
	2563A 2564B	340	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	MPE IV-Q DELTA 2	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	
	2563A only	055	MTS	None	INP	See DSN/MTS Reference Manual Part # 32193-90002	MPE V-P/E	The Multipoint I/F is supported on the 2563A Only	
	2563A 2564B	050	RS-422-A	None	ATP	13242P from CSO			
	2563A 2564B	053	Centronics	NOT SUPPORTED ON HP SYSTEMS — CALL SMC FOR MORE INFORMATION MAX DISTANCE 10 FT.					
	2566B 2567B	340	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	MPE IV C.01.02 or later	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	
	2608S Discontinued 11/85	340	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	Series 39/40 = MPE IV C.00.20 (CIPER) or later		
		055	HP Multipoint	None	MTS Data Link Connector or MTS Synchronous Modem Link	See DSN/MTS Reference Manual Part # 32193-90002	Series 42 = MPE-V MTS Version A.05.00 or later (Opt 055 only)		
	2680A	340	HP-IB	8120-3449 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	FOS MIT C.00.20 (CIPER)	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	
	LaserJet 2686A	None	RS-232-C RS-422-A	None		ADCC** ATP Direct Connect*	13242N for ADCC 13242X for ATP 40242P for RS-422-A	T-MIT	Supported as a print and space device only. HPWord support with HPWord V only. 2334A is supported
	LaserJet Plus 2686A	300							
	LaserJet 500 Plus 2686D	None							
	2687A Discontinued 3/86	340	RS-232-C	None		ADCC** ATP Direct Connect*	92219G (required) 30062-60018 (opt extension) Order cables via CSO	MPE IV-Q DELTA 2 or later	Supported data rates: ADCC = up to 9600 bps. Supported cable lengths up to: RS-232-C = 50 ft 2334A is supported
2688A	340	HP-IB	8120-3349 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	MPE IV-Q DELTA 2 or later	Supported on 37203A Opt 10 extenders up to 250 metres		
2565A 2566A Discontinued 5/86	340	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with printer	MPE IV C.01.02 or later	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.40.00 or later		

*May connect through ATP when using ATP expansion package (30273A or 30274A) or direct connect ATP P/N 30145A.

**ADCC supports RS-232-C only.

System Printers

Commercial Systems

COMBINATIONS		PRINTER			HOST		NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires
HP 3000 Series 44/48	2563A	049	RS-232-C	None	ATP*	92218D	MPE IV-Q Delta 2
	2564B	049	RS-232-C	None	ADCC	92219G	MPE IV-Q DELTA 2
	2563A only	049	RS-232-C	None	MTS Data Link Connector or MTS Synchronous Modem Link	92219G	MTS A.07.00 or A.57.00
	2563A	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	MPE IV-Q DELTA 2
	2563A only	055	MTS	None	INP	See DSN/MTS Reference Manual Part # 32193-90002	MPE V-P/E and MTS Version A.07.00 or A.57.00
	2563A	050	RS-422-A	None	ATP*	13242P from CSO	
	2563A	053	Centronics	NOT SUPPORTED ON HP SYSTEMS — CALL SMC FOR MORE INFORMATION MAX DISTANCE 10 FT.			
	2566B	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	MPE IV C.01.02 or later
	2567B	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later
	2608S	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	Series 39/40 = MPE IV C.00.20 (CIPHER) or later
	Discontinued 11/85	055	HP Multipoint	None	MTS Data Link Connector or MTS Synchronous Modem Link	See DSN/MTS Reference Manual Part # 32193-90002	Series 42 = MPE-V MTS Version A.05.00 or later (Opt 055 only)
	2680A	344	HP-IB	8120-3449 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	Series 39/40 = MPE IV C.00.20 (CIPHER) or later
	LaserJet	None					
	LaserJet Plus	300	RS-232-C	RS-422-A	ADCC**	13242N for ADCC 13242X for ATP 40242P for RS-422-A	T-MIT
LaserJet 500 Plus	None						
2687A	344	RS-232-C	None	ADCC**	92219G (required) 30062-60018 (opt extension) via CSO	MPE IV-Q DELTA 2	
Discontinued 3/86	344	HP-IB	8120-3349 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	Supported on 37203A Opt 10 extenders up to 250 metres	
2565A	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	

*May connect through ATP when using ATP expansion package (30273A or 30274A) or direct connect ATP P/N 30145A.
**ADCC supports RS-232-C only.

COMBINATIONS		PRINTER			HOST			NOTES	
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires		
HP 3000 Series 58	2563A 2564B	049	RS-232-C	None	ATP*	92218D	MPE IV-Q Delta 2	Direct connect when used with 2333A and MTS	
					ADCC	92219G			
	2563A only	049	RS-232-C	None	MTS Data Link Connector or MTS Synchronous Modem Link	92219G	MTS A.07.00 or A.57.00		
	2563A 2564B	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer			Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later
	2563A only	055	MTS	None	INP	See DSN/MTS Reference Manual Part # 32193-90002	MPE V-P/E and MTS Version A.07.00 or A.57.00		The Multipoint I/F is supported on the 2563A Only
	2563A 2564B	050	RS-422-A	None	ATP*	30154A from CSO			
	2563A 2564B	053	Centronics	NOT SUPPORTED ON HP SYSTEMS — CALL SMC FOR MORE INFORMATION MAX DISTANCE 10 FT.					
	2566B 2567B	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	T-MIT or later	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	
	2680A	344	HP-IB	8120-3449 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	T-MIT or later	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	
	LaserJet 2686A	None	RS-232-C RS-422-A	None	ATP* ADCC**	13242N for ADCC 13242X for ATP 40242P for RS-422-A	T-MIT or later	Supported as a print and space device only. HPWord support with HPWord V only. 2334A is supported	
	LaserJet Plus 2686A	300							
	LaserJet 500 Plus 2686D	None							
	2687A Discontinued 3/86	344	RS-232-C	None	ATP* ADCC**	92218D (required) Order cables via CSO	T-MIT or later	Supported data rates: ATP = up to 19.2 Kbps. 2334A also supported Supported cable lengths up to: RS-232-C = 50 ft RS-422-A = 4000 ft	
		364 & 001	RS-422-A	None	ATP*	92216C (required) via CSO 30154-60001 (opt extension)			
	2688A	344	HP-IB	8120-3349 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	T-MIT or later	Supported on 37203A Opt 10 extenders up to 250 metres. Must use MPE V/E Version G.A0.00 or later	
2565A 2566A Discontinued 5/86	344	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with printer	T-MIT or later	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later		



*May connect through ATP when using ATP expansion package (30273A or 30274A) or direct connect ATP P/N 30145A.
**ADCC supports RS-232-C only.

System Printers _____ Commercial Systems

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 9000 Series 500	2563A 2564B	290	HP-IB	10833C HP-IB — 4 m	27110A (HP-IB card)	Supplied with Printer	BASIC 1.02 or HP-UX 2.0	27110A not included with Opt 290
	2565A Discontinued 5/86	200	HP-IB	10833C HP-IB — 4 m	27110A	Supplied with Printer	BASIC 2.0 or HP-UX 4.0	
	2566A Discontinued 5/86	200	HP-IB	10833C HP-IB — 4 m	27110A	Supplied with Printer	BASIC 1.02 or HP-UX 2.0	
	2566B	200	HP-IB	10833C HP-IB — 4 m	27110A	Supplied with Printer	BASIC 1.02 or HP-UX 2.0	
	2566A Discontinued 5/86	290	HP-IB	10833C HP-IB — 4 m	27110A	Supplied with Printer	BASIC 2.0 or HP-UX 4.0	
	2566B	290	HP-IB	10833C HP-IB — 4 m	27110A	Supplied with Printer	BASIC 2.0 or HP-UX 4.0	
	2608S Discontinued 11/85	290	HP-IB SRM	10833C HP-IB — 4 m	27110A	Supplied with Printer	BASIC 1.02 or HP-UX 2.0	Models 550 and 560 do not support
	LaserJet 2686A	Std	RS-232-C	None	27128A	13242N for Std or 17255D for 001	HP-UX 4.0	BASIC does not support 2686A
	LaserJet PLUS 2686A	300			27130B	13242N		
	LaserJet 500 PLUS 2686D	Std			27140A	17255D for DTE		
2688A	850	HP-IB	8120-3349 HP-IB — 8 m	27110A	Supplied with Printer	BASIC 2.0 or HP-UX 4.0	Supported only on Models 550 and 560	

COMBINATIONS		PRINTER			HOST			NOTES	
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires		
HP 3000 Series 64/68/70	2563A	049	RS-232-C	None	ATP	92218D	MPE IV-Q Delta 2	Direct connect when used with 2333A	
	2564B				ADCC	92219G			
	2563A only	049	RS-232-C	None	INP	92219G	MTS A.07.00 or A.57.00		
	2563A 2564B	364	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer			Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later
	2563 only	055	MTS	None	INP	See DSN/MTS Reference Manual Part # 32193-90002	MPE V-P/E and MTS Version A.07.00 or A.57.00		The Multipoint I/F is supported on the 2563A Only
	2563A 2564B	050	RS-422-A	None	ATP	30154A from CSO			
		053	Centronics	NOT SUPPORTED ON HP SYSTEMS — CALL SMC FOR MORE INFORMATION MAX DISTANCE 10 FT.					
	2566B 2567B	364	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	MPE IV C.01.02 or later	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	
	2608S Discontinued 11/85	364	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	Series 64 = MPE IV C.00.20 (CIPER) or later		
		055	HP Multipoint	None	MTS Data Link Connector or MTS Synchronous Modem Link (INP)	See DSN/MTS Reference Manual Part # 32193-90002	Series 68 = MPE-V MTS Version A.05.00 or later (Opt 055 only)		
	2680A	364	HP-IB	8120-3449 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	FOS MIT C.00.20 (CIPER)	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later	
	LaserJet 2686A	None	RS-232-C RS-422-A	None	ATP	RS-232-C 13242X (3 Pen) 13242N (25 Pen) RS-422-A 40242P (5 Pen)	T-MIT	Supported as a print and space device only. HPWord support with HPWord only. 2334A is supported	
	LaserJet PLUS 2686A	300							
	LaserJet 500 PLUS 2686D	None							
	2687A Discontinued 3/86	364	RS-232-C	None	ATP	92218D (required) Order cables via CSO	MPE-IV C.01.02 or later	Supported data rates: ATP = up to 19.2 Kbps 2334A also supported Supported cable lengths up to: RS-232-C = 50 ft RS-422-A = 4000 ft	
364 & 001		RS-422-A	None	ATP	92216C (required) via CSO 30154-60001 (opt extension)				
2688A	364	HP-IB	8120-3349 HP-IB — 8 m	30079A (High Speed) GIC (available from CSY)	Supplied with Printer	MPE-IV Q Delta 2	Supported on 37203A Opt 10 extenders up to 250 metres. Must use MPE V/E Version G.A0.00 or later		
2565A, 2566A Discontinued 5/86	364	HP-IB	10833C HP-IB — 4 m	30079A (High Speed) GIC (available from CSY)	Supplied with printer	MPE IV C.01.02 or later	Supported on 37203A Opt 10 extenders up to 250 metres — Must use MPE V/E Version G.A0.00 or later		

System Printers

Commercial Systems

COMBINATIONS		PLOTTERS		HOST				NOTES
Host	Plotters	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires	Graphics Software	
HP 250 HP 260	7470AR† 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	ASI	Order cable with plotter 747X: 13242M/N 7550A: 30062C	HP 250/260 Op Sys Standard (Rev B.07 or later)	DSG/250 Slide/250 GPL/250	Direct Mode only: (No Eavesdrop) DSG/250 & Slide/250 menu-driven graphics. GPL/250 consists of user-callable subroutines requiring programming ability.
HP 3000* Series I/II/III 3X 4X 5X 6X	7440A Opt 001 7470A Opt 001 & Opt 300 7470AR† 7475A Opt 001 7550A 7580B Opt 053 7585B Opt 053 7586B Opt 053	RS-232-C Direct to Plotter RS-422-A Direct to 7550A only (ATP only)	3 m Male-Male Cable 17355M standard with 758X plotters	I/II/III: ATC 3X: ADCC 4X: ADCC or ATP 37/5X/6X: ATP	Direct: ATC & ADCC: 74XX: 17355M 7550A: 17355D 758X: Provided ATP: 74XX: 30152A & 17355M 7550A: RS-232-C: 30152A RS-422-A: 17855A 758X: 30152A & provided cable	MPE Rev C.00.03 or later	HPDraw (A.03.01) DSG (A.04.00). HPMap, (A.01.00) & HPEasyChart (A.03.00) support 7550A and 7586B sheet feed (RS-422-A not supported) User callable subroutines: ISPP Rev B (HP 17580B)	For Direct Mode must use LDEV # 17440A Cartridge required for 7440A support on HPDraw and DSG No 7440A support on HPEasyChart and HPMap
	7470AR† 7470A Opt 001 & Opt 300 7475A Opt 001 7550A 7580B Opt 053 7585B Opt 053 7586B Opt 053	RS-232-C Eavesdrop	3 m Male-Male Cable 17355M standard with 758X plotters	I/II/III: ATC 3X: ADCC 4X: ADCC or ATP 37/5X/6X: ATP	Eavesdrop: ATC & ADCC: 747X: 17355D & 17455A 7550A: 17355D 758X: Provided ATP: 747X: 30152A & 17455A 7550A: 30152A 758X: 30152A & provided cable	MPE Rev C.00.03 or later	HPDraw (A.03.01) DSG (A.04.00). HPMap (A.01.00) & HPEasyChart (A.03.00) support 7550A and 7586B sheet feed User callable subroutines: ISPP Rev B (HP 17580B)	For Eavesdrop Mode must also order required terminal cable Plotter hang problem with HP 3000 Business Graphics, ATP, & 758X plotters in eavesdrop mode
	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B Opt 053 7585B Opt 053 7586B Opt 053	HP-IB (Slaved from terminals: HP 150 with Rev B firmware, 2625A/2628A to plotter)	None	HP 3000 Interface: I/II/III: ATC 3X: ADCC 4X: ADCC or ATP 37/5X/6X: ATP Terminal HP-IB Interface: 2625A: Opt 523 & 026 2628A: Opt 523 & 046	For RS-232-C to HP 3000: Order required terminal cable. For HP-IB plotter to terminal: Order cable 10833A/B/C (included with 2647F/48A only)	MPE Rev C.00.03 or later	HPDraw (A.03.01). DSG (A.04.00). HPMap (A.01.00) & HPEasyChart (A.03.00) support 7550A and 7586B sheet feed.	HP 3000 Business Graphics only supports HP-IB plotters when plotter slaved off specified terminal. Plotter performance is degraded in this configuration.
HP 3000 Notes: *HPDraw supported terminals: 2623A/27A, HP 150 (HP-IB requires Rev B firmware), 2625A/28A Opt 523. DSG/EZChart/Map supported terminals: 2382A/92A, 262X except 2621, HP 150 (Rev B firmware required). See terminals section for required terminal cable. †"AR" versions are remarketed products available from FRD.								













COMBINATIONS		TABLET		HOST				NOTES
Host	Graphics Tablet	Interface Type	Cable Sent with Tablet	Interface Required on Host	Cable Required	Host also Requires	Tablet Software	
HP 3000 Series III 3X, 4X, 5X, 6X with 2680	9111A with 2647F or 2648A Terminal	HP-IB from terminal to tablet RS-232-C from terminal to HP 3000	None	HP 3000 Interface III — ATC 3X — ADCC 4X — ADCC or ATP 5X/6X — ATP Terminal HP-IB (13296A) required for 2648A, standard with 2647F.	For RS-232-C to HP 3000: 13232N or equivalent. For HP-IB to terminal: One cable std with interface. Order extra as needed.	FOS MIT C.00.20 (CIPER)	IDS/3000 IDSCChar supports tablet for custom character design	Tablet only needed when nonstandard characters are required See 2680 for more details

Tablets _____ Commercial Systems

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
Mainframe	2685B	The 2685 uses an HP 3000 as a controller with options for either a 2680 or 2688 Laser Printer. Call SMC for information for details of this configuration.						
IBM 43XX IBM 30XX or IBM Plug Compatible	2689A	Std	Direct Channel connect to Byte or Block Multiplexer	None	Byte or Block Multiplexer	IBM Channel Cables HP P/N 26032A (Must order two) Power Control Cable HP P/N 26033A	HP will support only certain operating systems and spoolers Call SMC for more information	

Printers _____ **Non-HP Personal Computers**

PERIPHERAL CONFIGURATION GUIDE

workstation printers						
plotters						



239X Terminals
262X Terminals
264X Terminals
2700 Terminal

TERMINALS

COMBINATIONS		PRINTER			HOST			NOTES
Terminal	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Terminal	Cable Requirements	Terminal also Requires	
2392A 2393A 2394A 2397A	2225C 2227A	Std	Centronics	None	Opt 093	40242D		
	2671A* 2671G 2673A	042						
	2932A 2934A	042						
2392A 2393A 2394A 2397A 2622A 2623A 2624B 2626A 2627A 2628A	2225D 2227A	Std	RS-232-C	None	239X Requires Opt 092 2622A Requires Special Opt P03 All others use Port 2	239X uses 40242G All others use 13242G	Supported by HPWord III only on 2628A	
	2601A*	242		13242G				
	2602A* 2603A	Std		None				
	2671A* 2671G 2673A	040						
	2932A 2934A	Std						
	82905B*	140 240 340 440						
	2686A	Std						
	2687A**	Std						

*2601A, 2602A, 82905B and 2671A are no longer in production. Shown for reference only.

**Discontinued 3-1-86.

Workstation Printers

Terminals

COMBINATIONS		PRINTER			TERMINAL			NOTES
Terminal	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Terminal	Cable Requirements	Terminal also Requires	
2645A 2647F	2601A*	Std	RS-232-C	2601A Cable (Not used)	13250B Serial Printer Interface	Order 13232G	13261A Device Support Firmware or Tape Drives required on 2645A	
	2602A* (2647F Only)	046	HP-IB (On 2647F only)	None	HP-IB Interface standard on 2647F Not available on 2645A	HP-IB Cable comes with 2647F		
	2932A 2934A	046	HP-IB (On 2647F only)		HP-IB Interface standard on 2647F Not available on 2645A	HP-IB Cable comes with 2647F		
		Std	RS-232-C		13250B Serial Printer Interface	13232G		
	2671A** 2671G 2673A	040	RS-232-C		13250B Serial Printer Interface	13232G		
		240	8-Bit Parallel		13232J (1.8 m)	13238A Duplex Register Interface for Terminal shipped with Printer		Comes with Printer
		Std	HP-IB (On 2647F Only)		None	HP-IB Interface standard on 2647F Not available on 2645A		HP-IB Cable comes with 2647F
2700*	2671A** 2671G 2673A	Std	HP-IB		None	2700 Requires Opt 096 (HP-IB Interface)	10833 A, B, C or D	HP-IB Interface can be added to the 2700 in the field by ordering 13273H
	2932A 2934A	046						

*Product is no longer in production. Shown for reference only. 2601A, 2602A taken off the C.P.L. 11/01/85.

**Product discontinued 6/01/86.

Workstation Printers _____ Terminals

COMBINATIONS		PRINTER			HOST			NOTES
Terminal	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Terminal	Cable Requirements	Terminal also Requires	
2397A 2393A 2625A 2628A	2225A	Std	HP-IB	None	2397A — Opt 046 2393A — Opt 046 2625A — Opt 026 2628A — Opt 046	45529A or 10833 A, B, C, or D	For 2625A/2628A Opt 523 also required	
	2602A*	046						
	2671A* 2671G 2673A	Std						
	2932A 2934A	046						
	82905B* 82906A	001 002 003 004						

*2602A, 82905B, and 2671A no longer in production. Shown for reference only.

Workstation Printers _____ **Terminals**











































COMBINATIONS		PLOTTERS		HOST				NOTES
Terminal	Plotters	Interface Type	Cable Sent with Plotter	Interface Required on Terminal	Cable Required	Terminal also Requires	Graphics Software	
262X 2382A 239X	7470A Opt 001 7475A Opt 001 7550A 7580B 7585B 7586B	RS-232-C Eavesdrop only	3 m Male-Male Cable 17355M Std with 758X. Order 17455A for 747X.	RS-232-C Interface Standard	2621B, 2382A, 2625A & 2628A: Order 13242N. 239X: Order 40242M. All others: Order 13222N.	—	See desired host	HP 3000 Business Graphics Software does not support the 2621 or 239X.
2625A 2628A 2393A 2397A	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B 7585B 7586B	HP-IB	None	HP-IB Interface 2393/97A: Opt 046 2625A: Opt 026 2628A: Opt 046	Order 45529A for 2393A/97A Order Opt 308 for 2625A/28A	System use: Order cable for RS-232-C Interface: 2625A/28A: 13242N 2393A/97A: 40242M	For terminal use see desired host.	
HP 150 Terminal	7470A Opt 001 7475A Opt 001 7550A 7580B 7585B 7586B	RS-232-C Eavesdrop	3 m Male-Male Cable 17355M Std with 758X. Order 17455A for 747X.	RS-232-C Standard for Port 1.	Order 13242N.	—	See desired host	See HP Personal Computer Section for details on HP 150 PC use with R-232-C Plotter.
	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B 7585B 7586B	HP-IB slaved	None	HP-IB Standard. Use Port 1 for HP 150 to host.	Order 10833A/B/C for plotter. Order 13242N for HP 150 to host.	HP 150 Rev B firmware required for HP-IB slaved plotter.	See desired host	See HP Personal Computer Section for details on HP 150 PC use with HP-IB Plotter.

Plotters

Terminals



PERIPHERAL CONFIGURATION GUIDE

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HP1000

TECHNICAL SYSTEMS

COMBINATIONS		DISC DRIVE			HOST		
Host	Disc Drive	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes
HP 1000 E, F Series	9895A†	2/HP-IB Interface	HP-IB	None	12821A (HP-IB Cable included)	Disc Driver: DVA 32 (included with: RTE-IVB, RTE-IVE, RTE-6/VM)	—
	9121D 9122D 9144A	4/HP-IB Interface	HP-IB	None	12821A (HP-IB Cable included)	Disc Driver: DVA 37 (included with: RTE-6/VM)	Boot up is not supported from any of these devices.
HP 1000 A Series	9121D/S 9122D/S 9133D/H/L 9134D/H/L 9144A 9895A†	4/HP-IB Interface	HP-IB	None	12009A (HP-IB Cable included)	9121D/S, 9895A†: Interface Driver ID.37 Device Driver DD.30 included with RTE-A All others: ID.37 DD.33 and A.85 Software Release	9144A is supported on A.84 but performance is much slower than cartridge tape unit in 791XP/R Disc. Software is distributed on single-sided 3.5-inch media.
HP Integral PC (HP 9807)	9121D/S 9122D/S 9127†† 9133D/H/L 9134D/H/L 9153A 9154A	8/HP-IB Interface	HP-IB	None	82977A A/B HP-IB Cable or 10833 HP-IB Cable	The required operating system for all drives is built in.	Release 1.0.0 of the integral operating system requires work around procedure when formatting the 20 and 40 Mbyte (9133H/L and 9134H/L) hard discs.

†The 9895A will be discontinued 8/1/86.
 ††The 9127A replaces the 9125S.

COMBINATIONS		DISC DRIVE			HOST		
Host	Disc Drive*	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes
HP 1000 E, F Series	9885	1 Master/Interface	Parallel	None	12735-60001 Interface, 12735-60002 Interface, and 12735-60003 cable are required.	DVR 33	
HP 1000 A, L Series	9133A/B 9134A/B 9133V#004 913xXV#010	2/HP-IB Interface	HP-IB	None	12009A (HP-IB cable included)	Interface driver ID.37 Device driver DD.30 included with RTE-A	9133V#004 and 913xXV#010 are supported only with RTE-A
HP Integral PC (HP 9807)	8290XM 9133V 913xXV 9125S†	8/HP-IB Interface	HP-IB	None	82977A/B HP-IB Cable or 10833 HP-IB cable	Required operating system is built in	

*8290XM, 913xA/B, 9133V, 913xXV, 9125S, and the 9885 M/S are no longer in production. Support life ends: 8290XM — 7-1-90; 913xA/B — 7-1-89; 9133V — 7-1-90; 913xXV — 7-1-90; 9125S — 6-1-90; 9885M/S — 8-1-94;

†The 9127A has replaced the 9125S.

Discontinued Workstation Discs _____ Technical Systems

COMBINATIONS		CONFIGURATION SUPPORT					SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Boot Device	Load Device	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
1000 Series A/L	7908P/R*† 7911P/R* 7912P/R* PR/RR* 7014TD/TR† 7914ST†	4 Maximum Per I/F	None	Yes	Yes	10833B (HP-IB) 2 m 10833A (HP-IB) 1 m** 10833A (HP-IB) 1 m** 10833A (HP-IB) 1 m**	12009A Option 001 (Included with CPU on system orders)	4 m (13 ft) HP-IB Sent with I/F Card	**Note: Cumulative cable length CPU to last disc = 10 m maximum	Series L† Requires RTE-XL Series A requires RTE-A
	7914CT	4 Maximum Per I/F	None	Yes	Yes	10833A (HP-IB) 1 m	12009A Option 001	Same as above		Requires RTE-6A.85
	7942A 7946A	4 Maximum Per I/F	None	Yes	Yes	10833A (HP-IB) 1 m	12009A Option 001	4 m (13 ft) HP-IB Sent with I/F Card	**Note: Cumulative cable length CPU to last disc = 10 m maximum	Requires RTE-A
	7933H/HR 7935H/HR***	4 Maximum Per I/F	None	Yes	No	10833A (HP-IB) 1 m	12009A Option 001	Same as above		Requires RTE-A PCO B.83
	7941A**** 7945A/AR****	4 Maximum Per I/F	None	Yes	No	10833A (HP-IB) 1 m	12009A Option 001	Same as above		Requires RTE-A
7907††	4 Maximum Per I/F	None	Yes	No††	10833A (HP-IB) 1 m	12009A Option 001	Same as above		Requires RTE-A PCO A.85	

* Note: 7908R/11R/12R/14R available on Series A, Model 26 (A - 600 +). Model 27 (A700) and Model 29 (A900) systems.

** 7911/12/14 include the equivalent of 1 m HP-IB cable internally. Must consider for configuration; i.e., HP-IB loading requirements.

*** Software distribution not available on 7935H disc pack.

**** Requires A.85 PCO for use as the only disc on the system. Product no longer in production. Ten-year support life ends 11-1-95. Remarketed products available from FRD.

† 7914TD/ST conforms to configuration limitations of 7914P/R and 7970E, with its own separate set of option numbers (see 7914TD Data Sheet). Note also that each device in the 7914TD package has its own separate HP-IB cabling.

†† RTE-A primary system will not be distributed on removal disc cartridge.

COMBINATIONS		CONFIGURATION SUPPORT					SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Boot Device	Load Device	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
1000 Series E/F	7908†P/R 7911P/R 7912P/R 7914P/R PR/RR 7914TD/ TR‡†	4 Maximum Per I/F	None	Yes	Yes	10833B (HP-IB) 2 m 10833A (HP-IB) 1 m** 10833A (HP-IB) 1 m** 10833A (HP-IB) 1 m**	12821A Opt 001*** Maximum 2 I/F cards (order from RND) 4 Discs Maximum/Interface	3.7 m (12 ft) HP-IB cable Sent with I/F Card	**Note: Cumulative cable length CPU to last disc = 10 m maximum	Requires RTE-6/VM
	7933H/HR 7935H/HR	4 Maximum Per I/F	None	Yes	No	10833A (HP-IB) 1 m	12821A Opt 001*** Maximum 2 I/F Cards 4 Discs/Interface	3.7 m (12 ft) HP-IB cable Sent with I/F Card		Requires RTE-6/VM
	7942A 7946A	4 Maximum Per I/F	None	Yes****	Yes****	10833A (HP-IB) 1 m	12821A Opt 001*** Maximum 2 I/F Cards 4 Discs/Interface	3.7 m (12 ft) HP-IB cable Sent with I/F Card		Requires RTE-6/VM A.85
	7941A 7945A/AR	4 Maximum Per I/F	None	Yes****	No	10833A (HP-IB) 1 m	12821A Opt 001*** Maximum 2 I/F Cards 4 Discs/Interface	3.7 m (12 ft) HP-IB cable Sent with I/F Card		Requires RTE-6/VM A.85

* Note: Optional cable lengths available. See Accessories List, Appendix B.

** 7911/12/14 include the equivalent of 1 m HP-IB cable internally. Must consider for HP-IB loading requirements.

*** Note: Do not mix ICD Series (7906/20/25H) and CS80 disc (7908/11/12/14/33/35/41/42/45/46, or 7907) on the same disc interface card.

**** 7941, 7942, 7945, 7946, 7907 supported as auxiliary discs only until next Op Sys release.

† 7914ST/TD conforms to configuration limitations of 7914P/R and 7970E, with its own separate set of option numbers (see 7914TD Data Sheet). Note also that each device in the 7914TD package has its own cabling.

†† Note: A maximum of 2 disc interfaces is supported in the RTE-IVB or RTE-6VM primary system. Drivers for more disc interfaces can be generated into either RTE-IVB or RTE-6/VM to support more drives. However, the ability to connect multiple disc interfaces to the system does not necessarily mean that 2 disc interfaces can access memory simultaneously via DCPC. If the aggregate data rate exceeds the capability of the memory system, data loss can result.

‡ Product no longer in production. Ten-year support life ends 11-1-95. Remarketed products available from FRD.

COMBINATIONS		CONFIGURATION SUPPORT					SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Boot Device	Load Device	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
1000 Series E/F	7907A	4 Maximum Per I/F	None	Yes**	No†††	10833A (HP-IB) 1 m	12821A Opt 001* Maximum 2 I/F Cards 4 Discs/Interface	3.7 m (12 ft) HP-IB Sent with I/F Card		Requires RTE-6/VM A.85
	7906M/MR‡/ MS/MW 7920M‡‡/MR 7925M‡‡/MR	1 Maximum Per I/F 2 Total†	None	Yes	No	Multi-Unit and Data Cable Internal	13175D (Order from DMD) Max 1 Master Disc/ Interface Card	5.5 m (18 ft) Sent with I/F Card	5.5 m (18 ft)	Requires RTE-6/VM
	7906S/SR‡/ SS/SW 7920S‡‡/SR 7925S‡‡/SR	7 Maximum Per 7906/20/25M (7 Slaves)	Master Disc Required	No	No	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 M				
	7906H††† 7906HR††† 7920††††† 7925†††††	2 Maximum Per I/F	None	Yes	No	10833B (HP-IB) 2 m	12821A (Max 2 I/F Cards) (Order from RND) 2 Discs/Interface	3.7 m (12 ft) HP-IB Sent with I/F Card	**Note: Cumulative cable length CPU to last disc = 10 m Max	Requires RTE-IVB or RTE-6/VM

* Note: Do not mix ICD Series (7906/20/25H) and CS80 disc (7908/11/12/14/33/35/41/42/45/46, or 7907) on the same disc interface cards.

** 7941, 7942, 7945, 7946, and 7907 supported as auxiliary discs only until next Op Sys release.

‡ Product discontinuance announced. End of production 10-1-86.

‡‡ Product discontinuance announced. End of production 6-1-86. Remarketed products available from FRD.

† Note: A maximum of 2 disc interfaces is supported in the RTE-IVB or RTE-6VM primary system. Drivers for more disc interfaces can be generated into either RTE-IVB or RTE-6/VM to support more drives. However, the ability to connect multiple disc interfaces to the system does not necessarily mean that 2 disc interfaces can access memory simultaneously via DCPC. If the aggregate data rate exceeds the capability of the memory system, data loss can result.

†† Consult local SEO. Data overrun errors may occur when used with CS/80 (7908/11/12/14/33/35) products on the same disc interface.

††† RTE-6/VM primary system not currently distributed on removable disc cartridge.

COMBINATIONS		CONFIGURATION SUPPORT					SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Boot Device	Load Device	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
1000 Series M/E/F	7906M/MR‡/ MS/MW 7920M‡‡/MR 7925M‡‡/MR	1 Maximum Per I/F 2 Total	None	Yes	No	Multi-Unit and Data Cable Internal	13175D (Order from DMD) Max 1 Master/ Interface Card	5.5 m (18 ft)	5.5 m (18 ft)	Requires RTE-IVB
	7906S/SR‡/ SS/SW 7920S‡‡/SR 7925S‡‡/SR	7 Maximum Per 7906/20/25M (7 Slaves)	Master Disc Required	No	No	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 M				
Multi-CPU 1000 Series E/F Max 8 CPU's	7906M/MR‡/ MS/MW 7920M‡‡/MR 7925M‡‡/MR	1 Maximum Per I/F 2 Total†	None	Yes	No	Multi-Unit and Data Cable Internal	Master CPU — 13175D (Order from DMD) All other CPU's 13178D (Order from DMD)	5.5 m (18 ft) Sent with I/F Card	Requires RTE-IVB or RTE-6/VM	
	7906S/SR‡/ SS/SW 7920S‡‡/SR 7925S‡‡/SR	7 Maximum Per 7906/20/25M (7 Slaves)	Master Disc Required	No	No	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 M	Tee Connector 1.8 m (6 ft) I/F Cable 2.4 m (8 ft) Multi-CPU Cable* Cables sent with I/F Card			

* Note: Optional cable lengths available. See Accessories List, Appendix B.

† Note: A maximum of 2 disc interfaces is supported in the RTE-IVB or RTE-6/VM primary system. Drivers for more disc interfaces can be generated into either RTE-IVB or RTE-6/VM to support more drives. However, the ability to connect multiple disc interfaces to the system does not necessarily mean that 2 disc interfaces can access memory simultaneously via DCPC. If the aggregate data rate exceeds the I/O bandwidth of the CPU, data loss can result.

‡ Product discontinuance announced. End of production 10-1-86.

‡‡ Product discontinuance announced. End of production 6-1-86. Remarketed products available from FRD.

COMBINATIONS		CONFIGURATION SUPPORT					SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Boot Device	Load Device	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
1000 A Series	7906M/MR*†/MW 7906M*†/MS 7920M*††/MR 7925M*††/MR	1 Per I/F	102	Yes	No	2 m HP-IB Multi-Unit and Data Cable Internal	12009A Opt 001	4 m (13 ft) HP-IB Sent with I/F Card	10 m	Series A Requires RTE-A A.84 PCO
	7906S/SR*†/SW 7906S*†/SS 7920S*†/SR 7925S*†/SR	7 Maximum Per 7906M 7920M 7925M Opt 102	Master Disc Opt 102	No	No	13013B-003 (Multi-Unit) 2.4 m 13213B-002 (Data Cable) 15.2 m				
1000 A Series E/F Max 8 CPU's	7906M/MR*†/MW 7906M*†/SS 7920M*††/MR 7925M*††/MR	1 Per I/F	13037 Opt 050 13366A I/F Cable (10 m) or 13366A Opt 001 I/F Cable (20 m) (The 13366A is required to connect to 13037 Opt 050 to the Mac disc controller)	Yes	No	Multi-Unit and Data Cable Internal	12745D and 12009A Opt 001 for each A Series CPU (Up to 3 12745 I/F cards can be installed in one 13037 Opt 050 box)	4 m (13 ft) HP-IB sent with I/F Card	10 m	
	7906S/SR*†/SW/S/SS 7920S*†/SR 7925S*††/SR	7 Maximum Per 7906S 7920M 7925M Master Disc		No	No	13013B-003 (Multi-Unit) 2.4 m 13213B-002 (Data Cable) 15.2 m				

* Not supported as system disc.

† Product discontinuance announced. End of production 10-1-86.

†† Product discontinuance announced. End of production 6-1-86. Remarketed products available from FRD.

COMBINATIONS		TAPE DRIVE			HOST		NOTES	
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive		System Interface	System Requirements	
1000 Series MEF	7970B 7970BR **	8	Parallel Differential	Initial drive: 13181B 15 ft Add-on: Multi-unit 20 ft		13181B	2 interface cards sent with initial drive. Maximum 4 drives per controller.	There are no 7970B slaves
	7970E 7970ER **	8	Parallel Differential	Master: 13183B 15 ft Add-on: Multi-unit 20 ft Slave: Multi-unit 20 ft		13183B	2 interface cards sent with initial drive. Maximum 4 drives per controller.	Each master can control up to 3 slaves
	7974A†	2	HP-IB	HP-IB 2 m		12821A	Requires special 93741A driver and RTE-6/VM	
	7976A 7976AR (Nt) *	1	HP-IB	HP-IB 2 m		12821A	Requires special 93577M driver and RTE-IVB or RTE-6/VM	Local SEO & CEO must approve sale
	7978A/B	1	HP-IB	HP-IB 2 m		12821A	Requires special 93741A driver and RTE-6/VM	
	9144A†	4	HP-IB CS80	None		12821A	Requires A.85 Version of RTE-6/VM	System bootup supported with special 93702A
	Combining 797X	9 total						

See Appendix A for option numbers and cabinet styles.

*7976A/AR are no longer in production. Five-year support life ends 8-1-90.

**7970B/BR/E/ER product discontinuance announced. End of production 11-1-86. Remarketed products available from FRD.

†Remarketed products available from FRD.

COMBINATIONS		TAPE DRIVE			HOST		NOTES
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive		System Interface	System Requirements
1000 A Series	7970E 7970ER **	2	HP-IB	Master: HP-IB 6 m 19 ft Slave: Multi-unit 20 ft		12009A	Slaves are not supported
	7974A†	2	HP-IB	HP-IB 2 m		12009A	Requires A.84 version of RTE-A Performance improvements with A.85
	7976A 7976AR (Nt)	1	HP-IB	HP-IB 2 m		12009A	Requires special 93698L driver and RTE-A Local SEO & CEO must approve sale
	9144A†	4	HP-IB CS80	None		12009A	Requires A.84 Version of RTE-A Performance improvements with A.85
	7978A/B	2	HP-IB	HP-IB 2 m		12009A	Requires A.85 version of RTE-A

See Appendix A for option numbers and cabinet styles.

*7976A/AR are no longer in production. Five-year support life ends 8-1-90.

**7970B/BR/E/ER product discontinuance announced. End of production 11-1-86. Remarketed products available from FRD.

†Remarketed products available from FRD.

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 1000A	2932A 2934A	046	HP-IB	None	12009A HP-IB Interface (from RND)	10833 A,B,C,D	HP-IB Interface Driver ID.37 & Device Driver DD.12	This is the recommended Interface Option
		Std	RS-232-C Local	None	12040C Multiplexer Channel (from RND)	92219G	Async Interface Driver IDM.00 & Device Driver DD.00	†This interface combination is for local connection only
	2932A 2934A	Std	RS-232-C Local	None	12005B + Opt 002 (from RND)	Included with 12005B Opt 002 Interface	Async Interface Driver ID.00 & Device Driver DD.00	Graphics supported on 92861A Graphics 1000-2 Ver 2.0 Device Independent Graphics Library
HP 1000A	2671A* 2671G 2673A	Std	HP-IB	None	12009A HP-IB Interface and cable (from RND)	Included with 12009A Interface	HP-IB Interface Driver ID.37 & Device Driver (See notes)	Alphanumeric Print only for 2671A/G No Device Driver for 2671A/B. (**No Graphics**) The 2631B Printer Device Drive DD.12 supports Alphanumeric Print only on 2673A
HP 1000A	82905B* 82906A	001 — 110V 002 — 120V 003 — 220V 004 — 240V	HP-IB	None	12009A HP-IB Interface and cable (from RND)	Included with 12009A Interface	Uses Interface Driver ID.37 only	There is no Device Driver for the 82905B & 82906A Alphanumeric Print capabilities only (no graphics)
HP 1000 M,E,F	2932A 2934A	Std	RS-232-C Local	None	12792C Multiplexer Channel from RND	92219G	Driver DDV 12	This interface combination is for local connection only

*Product is discontinued. Shown for reference only. 82905B taken off the C.P.L. 11/01/85. 2671A taken off the C.P.L. 6/01/86.

†Graphics supported on all listed connections of 2932A/34A with 92861A Graphics 1000-2 Ver 2.0 Device Independent Graphics Library.

Workstation Printers _____ **Technical Systems**

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 1000 M, E, F	2563A 2564B 2566B	049	RS-232-C	None	12792C (MUX) from Roseville Networks Division	92219G	RTE-IVB* or RTE-6/VM*	Max print speed with 2566B is 750 lpm Req dedicated 12792C config for 19.2K baud
	2563A 2566B	100	Parallel Interface, 2608A compatible	None	26099A from Boise Division (not supplied with 256XA Opt 100)	Supplied with 26099A	RTE-IVB* or RTE-6VM*	For long cables, call SMC; max length is 1000 ft
	2563A 2564B 2566B	210	HP-IB	10833C HP-IB — 4 m	12821A Opt 001 from Roseville Networks Div (not supplied with 256XA Opt 210)	Supplied with Printer	RTE-IVB** or RTE-6VM**	Supported on Std 37203A HP-IB Extenders
HP 1000 A-Series	2563A 2564B 2566B	049	RS-232-C	None	12040C (MUX) from Roseville Networks Division	92219G	RTE-A	Max print speed with 2566B is 750 lpm Req dedicated 12040B config for 19.2K baud
		214	HP-IB	10833C HP-IB — 4 m	12009A from Roseville Networks Division (not supplied with 256XA Opt 100)	Supplied with printer	RTE-A	Supported Std 37203A HP-IB Extenders
	2680A	301	HP-IB	8120-3449 HP-IB — 8 m	12009A from Roseville Networks Division	Supplied with Printer	Contact DSD Specials Engineering	Supported via special driver available from DSD
	2687A Discontinued 3/86	214	RS-232-C	None	12040C (MUX) from Roseville Networks Division	92219G	RTE-A	
	2688A		HP-IB	8120-3449 HP-IB — 8 m	12009A from Roseville Networks Division	Supplied with Printer	Contact DSD Specials Engineering	Supported via special driver available from DSD

*Requires driver DVB12 2424.

**Requires driver DCV12 2424.

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP 1000 M, E, F	2565A 2566B Discontinued 5/86	049	RS-232-C	None	12792C (MUX) from Roseville Networks Division	92219G	RTE-IVB or RTE-6/VM	Max print speed with 2566A is 750 lpm Req dedicated 12792C config for 19.2K baud
	2565A 2566A Discontinued 5/86	100	Parallel Interface, 2608A compatible	None	26099A from Boise Division (not supplied with 256XA Opt 100)	Supplied with 26099A	RTE-IVB* or RTE-6VM*	For long cables, call SMC; max length is 1000 ft
	2565A 2566A Discontinued 5/86	210	HP-IB	10833C HP-IB — 4 m	12821A Opt 001 from Roseville Networks Div (not supplied with 256XA Opt 210)	Supplied with Printer	RTE-IVB** or RTE-6VM**	Supported on Std 37203A HP-IB Extenders Maximum of 2 printers per interface.
HP 1000 A-Series	2565A 2566A Discontinued 5/86	049	RS-232-C	None	12040C (MUX) from Roseville Networks Division	92219G	RTE-A	Max print speed with 2566A is 750 lpm Req dedicated 12792C config for 19.2K baud
	2565A 2566A Discontinued 5/86	214	HP-IB	10833C HP-IB — 4m	12009A from Roseville Networks Division (not supplied with 256XA Opt 214)	Supplied with printer	RTE-A	Supported Std 37203A HP-IB Extenders Maximum of 2 printers per interface
	LaserJet 2686A	Std	RS-232-C	None	12040C (MUX) Available from Roseville Networks Division	13242N	RTE-A	Recommended cables are: 13242N 5 m 92218G 3.5 m Not supplied with the printer
	LaserJet Plus 2686A	300						
LaserJet 500 Plus 2686D	Std							

*Requires driver DVB12 2424.



















**Requires driver DCV12 2424.

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
HP Integral PC	LaserJet 2686A	Std	RS-232-C	None	82919A	82974D		Recommended cables are: 13242N 5 m 92219G 3.5 m Not supplied with the printer
	LaserJet PLUS 2686A	300						
	LaserJet 500 PLUS 2686D	Std						

COMBINATIONS		PLOTTERS		HOST				NOTES
Host	Plotters	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires	Graphics Software	
HP 1000 A	7440A Opt 002 7470A Opt 002 7475A Opt 002* 7550A* 7580B Opt 060 7585B Opt 060 7586B Opt 060*	HP-IB	None	12009A	One cable comes with interface. Order extra 10833A/B/C/D as needed.	A Series uses RTE-A and ID.37 driver	Graphics/1000-II DGL & AGP Rev 2.0 *(Rev 2.0 required for 7440/7475/7550/7586 support) 7440A supported under release of version 4.0 of RTE-A and RTE-6/VM.	Graphics/1000-II provides graphics subroutines — required for all graphics programming. DGL & AGP Rev 2.0 does not support long-axis plots. Page advance only.
HP 1000 E/F	7440A Opt 002 7470A Opt 002 7475A Opt 002* 7550A* 7580B Opt 060 7585B Opt 060 7586B Opt 060*	HP-IB	None	59310A	One cable comes with interface. Order extra 10833A/B/C/D as needed.	RTE-6/VM or RTE-IVB. Driver DVR37 also used.	Graphics/1000-II DGL & AGP Rev 2.0 *(Rev 2.0 required for 7440/7475/7550/7586 support: No support under RTE-IVB.) 7440A supported under release of version 4.0 of RTE-A and RTE-6/VM.	See above notes
HP 1000 A	7440A Opt 001 7470A Opt 001 7475A Opt 001* 7550A* 7580B Opt 060 7585B Opt 060 7586B Opt 060*	RS-232-C	None	12040C (MUX) from RND	13242N	A series requires RTE-A Version 4.0	Graphics/1000-II DGL & AGP Rev 2.0 *(Rev 2.0 required for 7440/7475/7550/7586 support.)	See above notes. Also, 758X only supported for S/N 2402A or greater.
HP 1000 E/F	7440A Opt 001 7470A Opt 001 7475A Opt 001* 7550A* 7580B Opt 060 7585B Opt 060 7586B Opt 060*	RS-232-C	None	12792C (MUX) from RND	13242N	EF series requires RTE-A Version 4.0	Graphics/1000-II DGL & AGP Rev 2.0 *(Rev 2.0 required for 7440/7475/7550/7586 support — no support under RTE-IVB.)	See above notes. Also, 758X only supported for S/N 2402A or greater.

COMBINATIONS		TABLET		HOST				NOTES
Host	Tablet	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires	Tablet Software	
HP 1000 A	9111A Opt 100	HP-IB	None	12009A	One cable comes with interface. Order extra 10833A/B/C/D as needed.	A Series uses RTE-A and ID.37 driver	Graphics/1000-II AGP & DGL	Graphics/1000-II provides graphics subroutines — required for all graphics. Programming ability required.
HP 1000 E/F	9111A Opt 100	HP-IB	None	59310B	One cable comes with interface. Order extra 10833A/B/C/D as needed.	RTE-6/VM or RTE-IVB DVR.37 also required,	Graphics/1000-II AGP & DGL	Graphics/1000-II provides graphics subroutines — required for all graphics. Programming ability required.

PERIPHERAL CONFIGURATION GUIDE

workstation discs						
system discs						
tape drives						



982X Desktops
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984X Desktops

DESKTOPS

COMBINATIONS		DISC DRIVE			HOST		
Host	Disc Drive	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes
HP 9825 A/B/S	Please see discontinued discs						
HP 9825T	9121D/S 9122D/S 9133D 9134D 9144A 9895A†	2/HP-IB Interface	HP-IB	None	98034A revised or later HP-IB Interface (98034A revised card is not certified by FCC for Class A regulations)	98228A ROM only supports the 9895A† All other drives require the MS-ROM supported by Structured Software Systems 609-267-1616	Only one of the following three ROMs can be loaded at any one time: 98217, 98228, MS-ROM
HP 9835A	9895A†	2/HP-IB Interface	HP-IB	None	98034A revised or later HP-IB Interface	Supports 9895A† with 98331B ROM	A separate HP-IB interface is required for discs when using 98413B ROM
HP 9845B/C	9121D/S 9122D/S 9133D 9134D 9144A 9895A†	2/HP-IB Interface	HP-IB	None	98034A revised or later HP-IB Interface (98034A revised card is not FCC certified for Class A)	98413B/C ROM only supports the 9895A† All other drives require a third party ROM — supported by Structured Software Systems 609-267-1616	A separate HP-IB interface is required for discs when using 98413B ROM

†The 9895A will be discontinued 8/1/86.

COMBINATIONS		DISC DRIVE			HOST					
Host	Disc Drive	Maximum No. of Mass Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver or System Required	Notes			
HP 9825 A/B/S	Please See Discontinued Discs									
HP 9825T	9121D/S 9122D/S 9133D 9134D	2/HP-IB Interface	HP-IB	None	98034A Revised or later HP-IB Interface (98034A Revised card is not certified by FCC for Class A regulations.)	All drives require a Third Party ROM — supported by Structured Software Systems (609) 267-1616	Only one of the following three ROMs can be loaded at any one time: 98217, 98228, MS-ROM			
9845B/C	9121D/S 9122D/S 9133D 9134D	2/HP-IB Interface	HP-IB	None	98034A Revised or later HP-IB Interface (98034A Revised card is not certified by FCC for Class A regulations.)	All other drives require a Third Party ROM — supported by Structured Software Systems, (609) 267-1616	A separate HP-IB Interface is required for discs when using 98413B ROM.			
HP 9000 Series 500	9122D/S 9127A 913xD/H/L 9153A 9154A	2/HP-IB Interface	HP-IB	None	27110A One shipped with each host computer	9127A requires BASIC 2.0, HP-UX 5.1 or later 9153A/54A requires BASIC 2.0, HP-UX not supported All others need BASIC 2.0, HP-UX 4.0 or later	Use 913xD #001 for HP-UX. The standard 913xD is not supported.			
HP 9000 Series 200	9121D/S 9122D/S 9133D/H/L 9134D/H/L 9153A 9154A	2/HP-IB Interface	HP-IB	None	10833 HP-IB Cable Note: Series 200 shipped with one HP-IB cable.	Earliest Supporting Op Sys — All Later Versions Work				
							BASIC	PASCAL	HPL	HP-UX
						9121D/S	2.0	2.0	1.0	2.0
						9122D/S	3.0	3.0	No*	2.2L
						9127A	3.0‡	3.0‡	No	5.1
						9133D	3.0	3.0	No*	2.2
						9133H	3.0	3.0	No*	2.2
						9133L	3.0	3.0	No*	2.2
						9134D	3.0	3.0	No*	2.2
						9134H	3.0	3.0	No	2.2
						9134L	3.0	3.0	No	2.2
						9144A	2.1	2.1	No	2.0
						9153A	3.0	3.0	No	2.1§
						9154A	3.0	3.0	No	2.1§

†Disc for use only as a secondary "mounted volumes" disc or LIF utility volumes. Direct installation is not supported.

‡File system support limited to HP directory types.

§HP-UX 2.1 requires a CS/80 disc with "single controller" cartridge tape drive. Additional discs may have "separate controller" tape drives or no tape drives. These devices may be used only as "add-ons." HP-UX has no such restrictions.

Workstation Discs _____ Desktops

COMBINATIONS		DISC DRIVE			HOST		
Host	Disc Drive*	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes
HP 9825 A/B/S	9885	1 Master/Interface	Parallel	None	98032A Opt 185 (includes cable)	98217A ROM	9885 Opt 025 contains the 98032A Opt 185 interface. Order data storage ROM separately.
HP 9825T	8290xM 913xA/B 9133V/XV 9134XV 9135A 9885M/S	9885: 1 Master/Interface All others: 2/HP-IB Interface	9885: Parallel All others: HP-IB	None	9885M: 98032A Opt 185 (includes cable) All others: 98034A revised or later HP-IB Interface (98034A revised card is not certified by FCC for Class A regulations.)	9885, 9134A: 98228A ROM All others: MS-ROM — supported by Structured Software Systems 609-267-1616	9885M Opt 025 contains the 98032A Opt 185 interface. Order 98228A ROM separately. Only one of the following three ROMs can be loaded at one time: 98217, 98228, MS-ROM
HP 9835A HP 9845B/C	8290xM 9133A/B 9134A/BV 9133V/XV 9134XV 9135A 9885M/S	9885: 1 Master/Interface All others: 2/HP-IB Interface	9885: Parallel All others: HP-IB	None	9885M: 9835; 98032 Opt 385 (incl cable) 9845; 98032 Opt 486 (incl cable) All others: 98034A revised or later HP-IB Interface (98034A revised card is not certified by FCC for Class A regulations.)	9835: Supports only 9134A, 9885, and 9895A; 98331B ROM 9845: Supports 9134A, 9885M/S, or 9895A† with; 98413B/C ROM 9845: Third Party ROM for all discs except 9885: Supported by Structured Software Systems, 609-267-1616	9885M Opt 035 contains the 98032A Opt 385 interface. Order 98331B ROM separately. 9885M Opt 045 contains the 98032A Opt 485 interface. Order 98413C ROM separately. 9835 and 9845 require a separate HP-IB interface for discs when using 98413B ROM.

*8290XM, 9130A, 913xA/B, 9133V, 913xXV, 9135A, and the 9885 M/S are no longer in production. Support life ends: 8290XM — 7-1-90; 9130A — 6-30-89; 913xA/B — 7-1-89; 9133V — 7-1-90; 913xXV — 7-1-90; 9135A — 7-1-89; 9885M/S — 8-1-94.

†The 9895A will be discontinued 8-1-86.

Discontinued Workstation Discs

Desktops

COMBINATIONS		DISC DRIVE			HOST					
Host	Disc Drive*	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes			
HP 9825 A/B/S	9885	1 Master/Interface	Parallel	None	98032A Opt 185 (includes cable)	98217A ROM	9885 Opt 025 contains the 98032A Opt 185 Interface. Order data storage ROM separately.			
HP 9825T	8290xM 9133A/B 9133V/XV 9134A/B 9134XV 9135A 9885M/S 9895A	9885: 1 Master/Interface All others: 2/HP-IB Interface	9885: Parallel All others: HP-IB	None	9885M: 98032A Opt 185 (includes cable) All others: 98034A Revised or later HP-IB Interface (98034A Revised card is not certified by FCC for Class A regulations.)	9885, 9895A, 9134A: 98228A ROM All others: MS-ROM — Supported by Structured Software Systems (609) 267-1616	9885M Opt 025 contains the 98032A Opt 185 Interface. Order 98228A ROM separately. Only one of the following three ROMs can be loaded at one time: 98217, 98228, MS-ROM			
HP 9835A 9845B/C	8290xM 9133A/B 9133V/XV 9134A/B 9134XV 9135A 9885M/S 9895A	9885: 1 Master/Interface All others: 2/HP-IB Interface	9885: Parallel All others: HP-IB	None	9885M: 9835; 98032 Opt 385 (incl cable) 9845; 98032 Opt 486 (incl cable) All others: 98034A Revised or later HP-IB Interface (98034A Revised card is not certified by FCC for Class A regulations.)	9835: Supports only 9134A, 9885, and 9895A; 98331B ROM 9845: Supports 9134A, 9885M/S, or 9895A with 98413B/C ROM 9845: Third Party ROM for all other discs except above. Supported by Structured Software Systems, (609) 267-1616	9885M Opt 035 contains the 98032A Opt 385 Interface. Order 98331B ROM separately. 9885M Opt 045 contains the 98032A Opt 485 Interface. Order 98413C ROM separately. 9835 and 9845 require a separate HP-IB Interface for discs when using 98413B ROM.			
HP 9000 Series 500	8290xM 9125S 9885M/S§ 9895A	9885: 1 Master/Interface All others: 2/HP-IB Interface	9885: Parallel All others: HP-IB	None	27110A One shipped with each host computer	9895, 8290x M/S need BASIC 1.0, HP-UX 2.0† or later. All others need BASIC 2.0, HP-UX 4.0 or later	Cannot be system boot discs			
HP 9000 Series 200	8290xM 9125A 9133A/B 9133V/XV 9134A/B 9134XV 9135A 9885M/S‡ 9895A	9885: 1 Master/Interface All others: 2/HP-IB Interface	9885M: Parallel All others: HP-IB	None	9885M: 98622 Opt 002 parallel I/O with cable All others: 10833 HP-IB Cable	Earliest Supporting Op Sys — All Later Versions Work				
							BASIC	PASCAL	HPL	HP-UX
						8290x M/S	2.0	2.0	1.0	2.0†
						9125S	3.0‡	3.0‡	No*	5.1
						9133A	2.0	2.0	1.0	2.0†
						9133B	2.1	2.1	No	2.0†
						9133V	2.1 Rev A	2.1	No	2.0†
						9133V #004	2.0	2.0	2.0	2.0†
						9133XV	2.1 Rev B	2.1	No	2.0†
						9134A	2.0	2.0	1.0	2.0†
						9134B	2.1	2.1	No	2.0†
						9134XV	2.1 Rev B	2.1	No	2.0†
						9135A	2.0	2.0	1.0	2.0†
						913xA #010	2.1	2.1	No	2.0†
						9885M/S	2.0	1.0	1.0	No
						9895A	2.0	1.0	1.0	1.0†

*Can be used with HP plus support from Structured Software Systems, Inc.

†Disc for use only as secondary "mounted volumes" disc or LIF utility volumes. Direct installation is not supported.

‡Model 216 and 217 not supported.

§Models 550 and 560 not supported.

Discontinued Workstation Discs

Desktops

COMBINATIONS		SYSTEM DISC			SYSTEM			
System	Disc Drive	Maximum Number of Drives	Required Option	Cable Sent with Disc	Disc Interface Card Required	Interface Cable Sent with System	Maximum Supported Cable Length	System Requirements
9845	7906M†/MS 7920M††/MR 7925M††/MR	1 Maximum	102	Multi-unit and Data Cable Internal 10833B (HP-IB) 2 m	98041A Opt 045 and 98413A/B/C ROM (Order from FSD)	Sent with Master Disc	3.35 m (9845 to 98041A) 6 m (98041A to Master)	
	7906S†/SS 7920S††/SR 7925S††/SR	3 Maximum	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m				
	7908P‡ 7911P 7912P	2 Maximum	None	10833B (HP-IB) 2 m 10833A (HP-IB) 1 m** 10833A (HP-IB) 1 m**	98034B, Opt 045 and 98413C ROM (Order from FSD)	Sent with Disc	2 m 1 m 1 m	
		6 total						
9835	7906M†/MS 7920M††/MR 7925M††/MR	1 Maximum	102	Multi-unit and Data Cable Internal 10833B (HP-IB) 2 m	98041A Opt 035 and 98331B ROM (Order from FSD)			
	7906S†/SS 7920S††/SR 7925S††/SR	3 Maximum	Master Disc Required	13013B-003* (Multi-Unit) 2.4 m 13213B-002* (Data) 15.2 m				
		4 total						
9845B/C	7907 7941 7945 7942 7946	2 Maximum	None	10833A (HP-IB) 1 m	98034B Opt 045 and SSS ROM***	1 m HP-IB sent with Disc		Supported by 3rd Party ROM ***
9825T	7907 7941 7945 7942 7946	2 Maximum	None	10833A (HP-IB) 1 m	98034B Opt 045 and SSS ROM***	1 m HP-IB sent with Disc		Supported by 3rd Party ROM ***

* Note: Special cable lengths available. See Accessories List, Appendix B.

** 7911/12 include the equivalent of 1 m HP-IB cable internally. Must consider for configuration; i.e., HP-IB loading requirements.

*** Purchased through an OEM company (Structured Systems Software (609) 267-1616).

‡ Product no longer in production. Seven-year support life ends 11-1-95.

† Product discontinuance announced. End of production 10-1-86.

†† Product discontinuance announced. End of production 6-1-86. Remarketed products available from FRD.

COMBINATIONS		TAPE DRIVE				HOST		NOTES
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive		System Interface	System Requirements	
9835A,B 9845B,C	7970E #	2	HP-IB	HP-IB	6 m	98041A	With 9835, refer to 98336A and 98331B. With 9845, refer to 98413C and 09845-15220.	Minimum of 128 Kbytes of memory required
	9144A†	2	HP-IB CS80	None		98041A or 98034B	Supported by 3rd Party ROM; Contact: Structured Software Systems 609-267-1616	Requires 3rd Party Rom; Contact: Structured Software Systems 609-267-1616
9000 Series 300/500	7970E #	2	HP-IB	HP-IB	6 m	27110A	Basic 1.02 or greater HP-UX 2.0 or greater	Slaves are not supported. Rev B boot from ROM required to use for install.
	9144A†	4	HP-IB CS80	None		98624A or Internal	9000/500 Basic 2.0 or HP-UX 4.0 9000/300 Basic 4.0 or HP-UX 5.0 or Pascal 3.1	9000/500 Rev B Boot ROM 9000/300 Rev A Boot ROM
	7974A†	2	HP-IB	HP-IB	2 m	27110A	9000/500 — HP-UX 4.0 9000/500 — Basic 2.0 9000/300 — HP-UX 4.0	Basic supports 1600 only. Rev B boot ROM required to use for install
	7978A/B	2	HP-IB	HP-IB	2 m	27110A	For 500 Basic 2.0 or greater For 500 HP-UX 4.0 or greater For 300 HP-UX 5.0 or greater	
	35401A	—	HP-IB	HP-IB	1 m	S300-98624A or 98625A* S500-27110A	S300 — Basic 4.0 S300 — PASCAL 3.1 S300 — HP-UX 5.1 S500 — HP-UX 5.0 (S520 — Basic not planned)	@Sequential Mode only @Sequential Mode only Sequential Mode Requires boot loader ROM "B" or later Sequential Mode only
9000 Series 200	9144A†	4	HP-IB CS80	None		98624A or Internal	Basic 2.0 with extensions or 3.0 or later Pascal 2.1 or 3.0 or later	
	7970E #	2	HP-IB	HP-IB	6 m	98624A or 98625A	Requires HP-UX Op Sys Upright cabinet only	Slaves not supported.
	35401A	—	HP-IB	HP-IB	1 m	98624A or 98625A* **	Basic 4.0 Pascal 3.1 HP-UX 5.1	@Sequential Mode only @Sequential Mode only Selective Mode

*Using 98620 with built-in, 98624A or 98625A interface improves performance.

**Boot ROM 3.0 or later required for S200 for 9144 and 35401.

#7970E/ER product discontinuance announced. End of production 11-1-86. Remarketed products available from FRD.

†Remarketed products available from FRD.

See Appendix A for option numbers and cabinet styles.

@Operator intervention or user programming required to change tapes.

Tape Drives

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COMBINATIONS		TAPE DRIVE			HOST		NOTES
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive	System Interface	System Requirements	
9835A,B 9845B,C	7970E	2	HP-IB	HP-IB 6 m	98041A	With 9835, refer to 98336A and 98331B With 9845, refer to 98413C and 09845-15220	Minimum of 128 Kbytes of memory required
	9144A	2	HP-IB CS80	None	98041A or 98034B	Supported by 3rd Party ROM; Contact: Structured Software Systems (609) 267-1616	Requires 3rd Party ROM; Contact: Structured Software Systems (609) 267-1616
9000 Series 300/500	7970E	2	HP-IB	HP-IB 6 m	27110A	BASIC 1.02 or greater HP-UX 2.0 or greater	Slaves are not supported. Rev B Boot ROM required to use for installation
	9144A	4	HP-IB CS80	None	98624A or Internal	9000/500 BASIC 2.0 or HP-UX 4.0 9000/300 BASIC 4.0 or HP-UX 5.0 or PASCAL 3.1	9000/500 Rev B Boot ROM 9000/300 Rev A Boot ROM
	7974A	2	HP-IB	HP-IB 2 m	27110A	9000/500 — HP-UX 4.0 9000/500 — BASIC 2.0 9000/300 — HP-UX 4.0	BASIC supports 1600 only Rev B Boot ROM required to use for installation
	7978A/B	2	HP-IB	HP-IB 2 m	27110A	For 500 BASIC 2.0 or greater For 500 HP-UX 4.0 or greater For 300 HP-UX 5.0 or greater	
	35401A	—	HP-IB	HP-IB 1 m	S300: 98624A or 98625A* S500: 27110A	S300 — BASIC 4.0 S300 — PASCAL 3.1 S300 — HP-UX 5.1 S500 — HP-UX 5.0 (S520 — BASIC not planned)	@ Sequential Mode Only @ Sequential Mode Only Sequential Mode Requires Boot Loader ROM "B" or later Sequential Mode only
9000 Series 200	9144A	4	HP-IB CS80	None	98624A or Internal	BASIC 2.0 with Extensions or 3.0 or later PASCAL 2.1 or 3.0 or later	
	7970E	2	HP-IB	HP-IB 6 m	98624A or 98625A	Requires HP-UX Op Sys upright cabinet only	Slaves not supported
	35401A	—	HP-IB	HP-IB 1 m	98624A or 98625A* **	BASIC 4.0 PASCAL 3.1 HP-UX 5.1	@ Sequential Mode Only @ Sequential Mode Only Selective Mode

See Appendix A for option numbers and cabinet styles.

*Using 98620 with built-in 98624A or 98625A interface improves performance.

**Boot ROM 3.0 or later required for S200 for 9144 and 35401.

@Operator intervention or user programming required to change tapes.

COMBINATIONS		TAPE DRIVE			HOST		NOTES
System	Tape Drive	Maximum Number	Interface Type	Cable Sent with Tape Drive	System Interface	System Requirements	
9000 Series 840	7974A	2	HP-IB	HP-IB 2 m	27110A	9000/500 — HP-UX 4.0 9000/500 — BASIC 2.0 9000/300 — HP-UX 4.0	
	7978A/B	2	HP-IB	HP-IB 2 m	27110A	For 500 BASIC 2.0 or greater For 500 HP-UX 4.0 or greater For 300 HP-UX 5.0 or greater	

Tape Drives _____ **Desktops**

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires (Earliest Operating System Version)	
HP 9000 Series 200 Models 216 217 220 226 236 237	2225A/AY	Std	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 2.0, HP-UX 2.0, or PASCAL 3.0	HPL or SRM does not support 2225A 2225B/C/D not supported
	2601A	826	RS-232-C	2601A Cable	98626A + Opt 200 from FSD	Comes with printer	BASIC 1.0, HPL 1.0, or PASCAL 2.1	SRM and HP-UX do not support 2601A Not supported on Models 220 or 237
	2602A	046	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0, HPL 1.0, or PASCAL 2.1	SRM and HP-UX do not support 2602A
	2631B	046	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0, HPL 1.0, HP-UX 2.0, PASCAL 1.0, SRM 1.0	
	2631G	Std	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0, HPL 1.0, HP-UX 2.0, PASCAL 1.0, SRM 1.0	
	2671A 2671G 2673A	Std	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0, HPL 1.0, HP-UX 2.0, PASCAL 1.0	SRM not supported on 267X printers and 2671G/73A Graphics not supported on Model 217
	2932A 2933A 2934A	046	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 2.0, HPL 2.0, PASCAL 2.0, HP-UX 2.0, SRM 2.0	
	82905A/B	001-4	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0, HPL 1.0, PASCAL 2.0	HP-UX and SRM do not support 82905A
	82906A	001-4	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0, HPL 1.0, HP-UX 2.0, PASCAL 2.0	SRM does not support 82906A
	9876A	Std	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0, HPL 1.0, HP-UX 2.0, PASCAL 1.0, SRM 1.0	

Workstation Printers

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COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires (Earliest Operating System Version)	
HP 9000 Series 500 Models 520 530 540 550 560	2225A	Std	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.02 or HP-UX 4.0	SRM does not support 2225A
	2601A	826	RS-232-C	2601A Cable	Plug into multiplexer or direct connect on ASI card 27128A or 27130A	Comes with printer	BASIC 1.0 or HP-UX 2.0	SRM does not support RS-232-C Models 550 and 560 do not support 2601A
	2602A	046	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0 or HP-UX 2.0 Dedicated HP-IB Bus	HP-UX supports 2602A/dedicated bus
	2631B	046	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0 or HP-UX 2.0	
	2631G	Std						
	2932A 2933A 2934A	046	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0 or HP-UX 3.0	
	97090A	Std	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0 or HP-UX 2.0	Supported only on Model 520
9876A	Std	HP-IB	None	HP-IB Standard on Host	10833A/B/C or D	BASIC 1.0 or HP-UX 2.0		
9845B/C	2601A	826	RS-232-C	2601A Cable	98036A + Opt 445 Serial Interface	Comes with printer	—	—
	2671A 2671G 2673A	Std	HP-IB	None	98034B HP-IB Interface with Cable	Included with Interface	—	

Workstation Printers

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COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
9816 9817 9820 9826 9836 9837	2563A	200	HP-IB	10833C HP-IB 4 m	HP-IB standard on host	Supplied with printer	BASIC 2.0 HP-UX 2.1 PASCAL 2.0	HPL and SRM do not support 2563A Opt 200. Comes from factory configured for character mode (Series 200) can change to SRM (CIPER) via front panel. Call CEO for details.
9817 9820 9826 9836 9837	2563A	850	HP-IB	10833C HP-IB 4 m	HP-IB standard on host	Supplied with printer	HP-UX 5.1 SRM 2.0	BASIC, PASCAL and HPL do not support 2563A Opt 850. HP 9816 not supported.
9816	2564B	200	HP-IB	10833C HP-IB 4 m	HP-IB standard on host	Supplied with printer	BASIC 2.0 HP-UX 2.1 PASCAL 2.0	HPL and SRM do not support 2564B Opt 200.
9820 9837	2565A Discontinued 5/86	200	HP-IB	10833C HP-IB 4 m	HP-IB standard on host	Supplied with printer	BASIC 2.0 HP-UX 2.1 PASCAL 2.0	HPL and SRM do not support
9820 9837	2566A Discontinued 5/86	850	HP-IB CIPER	10833C HP-IB 4 m	HP-IB standard on host	Supplied with printer	HP-UX 5.1 SRM 2.0	BASIC, HPL and PASCAL do not support
9820 9837	2566B	850	HP-IB CIPER	10833C HP-IB 4 m	HP-IB standard on host	Supplied with printer	HP-UX 5.1 SRM 2.0	BASIC, HPL and PASCAL do not support
9826 9836	2608A Discontinued 11/85	046	HP-IB	10833C HP-IB 4 m	Refer to SRM Manual Number 98028-90000 for details		ROM and Cable for Shared Resource Manager	Supported via Shared Resource Manager
9820 9826 9836 9837	2608S Discontinued 11/85	290	HP-IB CIPER	10833C HP-IB 4 m	HP-IB standard on host	Supplied with printer	HP-UX 5.1 SRM 2.0	BASIC, HPL and PASCAL do not support 2608S

System Printers

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COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
9816 9817 9820 9826 9836 9837	2686A 2686D	Std 300	RS-232-C	None	Built in RS-232-C, 98626A, 98628A, 98644	17255D for I/F Opt 001 13242D for I/F Opt 002	BASIC 2.0* HP-UX 2.2 Pascal 2.1	HPL and SRM do not support 2686A
9816 9820 9826 9836 9837	2688A	850	HP-IB	8120-3449 HP-IB 8 m	Standard HP-IB Interface	Supplied with printer	Pascal 2.1 and HP Tex (33402A)	
HP 9835 A, B	2608A Discontinued 11/85	835	HP-IB	None	98034B HP-IB I/F 8 Cable from DCD	Included with I/F		98332A and 98337A ROMS req for graphics screen dump capability
HP 9845 A, B	2608A Discontinued 11/85	845	HP-IB	None	98034B HP-IB I/F 8 Cable from DCD	Included with I/F		98431A, 98432A, and 98470A ROMS req for graphics screen dump capability
HP 9845 A, B, T	2608S Discontinued 11/85	850	HP-IB	10833C HP-IB 4 m	Shared resource manager (9826) Opt 500	Supplied with Printer	SRM Release 2.0	Supported on Shared Resource Manager only
	2563A							
HP 9000 Series 500	2608S Discontinued 11/85	290	HP-IB	10833C HP-IB 4 m	27110A I/F Available from Roseville Division	Supplied with printer	BASIC Rev 2 and HP-UX Rev 1	Graphics output using HP-UX or BASIC Op Sys 9000 AGP and user written program
HP 9000 Series 500	2687A Discontinued 3/86							Planned support but not at introduction
HP 9000 Series 500	2688A							Planned support but not at introduction

*Transfer support only on 98628A interface.

System Printers

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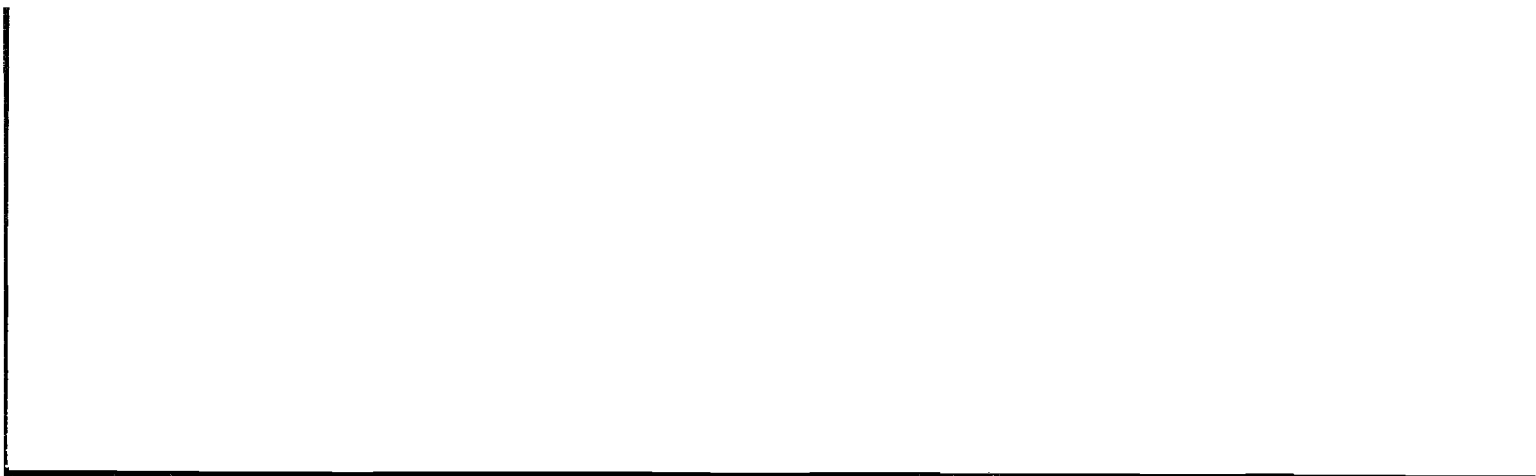
COMBINATIONS		PLOTTERS		HOST		NOTES	
Host	Plotters	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires Earliest Op Sys Version	
HP 9845B/C	9872C 7470A Opt 002* 7475A Opt 002* (*See notes)	HP-IB	None	HP-IB 98034B Interface	HP-IB cable integral part of interface. Order extra 10833A/B/C/D	— Graphics presentations 09845-10540 for 9845B 09845-15230 for 9845C	*Graphics presentations only indicates 9872C plotter. Other plotters work without error.
BASIC Models 216, 217, 220, 226, 236, 237	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B 7580B Opt 051 7586B	HP-IB	None	HP-IB Interface Standard	One 10833B sent with interface. Order extra as needed.	Graphics Presentations Rev C, Statistics Library, and HP- Draft 3.0 (Requires BASIC 3.0 on Models 220 & 236)	No roll feed support on 7586B. Graphic PAC supports 747X only. No 7475A support on HP-Draft.
PASCAL Models 216, 217, 220, 226, 236, 237	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B 7580B Opt 051 7586B	HP-IB	None	HP-IB Interface Standard	One 10833B sent with interface. Order extra as needed.	Context MBA (Rev 2.4 not on Model 226) Picture Perfect, Diagram, EGS/200 (Rev 1.05) on Models 220, 226, 236	Only EGS/200 supports 7586B — No roll feed. Picture Perfect and Diagram require PASCAL 3.0.
HP-UX Models 217, 220, 236, 237	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B 7580B Opt 051 7586B	HP-IB	None	HP-IB Interface Standard	One 10833B sent with interface. Order extra as needed.	Graphics/9000 DGL	Graphics/9000 provides graphics subroutines required for all graphics programming
HPL Models 216, 226, 236	7470A Opt 002 7475A Opt 002 7580B 7585B	HP-IB	None	HP-IB Interface Standard	One 10833B sent with interface. Order extra as needed.	—	—
SRM Models 7580B Opt 051 7585B Opt 051 7586B Opt 051	7550A 7580B Opt 051 7585B Opt 051	HP-IB	None	HP-IB Standard for Model 226 Order Opt 500 for Model 220	One 10833B sent with interface. Order extra as needed.	See FSD Configuration Guide for SRM requirements	SRM 2.0 Plotter Spooling on BASIC 3.0 & PASCAL 2.1 7586B requires SRM 2.1
BASIC All Models	7440A Opt 002 7470A Opt 002 7475A Opt 002	HP-IB	None	HP-IB Interface	One 10833B sent with interface. Order extra as needed.	BASIC 3D Graphics HP-Design	No long axis support on 7586B. Page advance only.
HP-UX All Models	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B 7585B 7586B	HP-IB	None	HP-IB Interface	One 10833B sent with interface. Order extra as needed.	Graphics/9000 DGL & AGP HP-Spice (7470A, 7580B/85B only on HP-Spice)	Graphics/9000 provides graphics subroutines required for graphics programming

COMBINATIONS		TABLET		HOST				NOTES	
Host	Graphics Tablet	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires	Tablet Software		
HP 9845B/C	9111A Opt 045	HP-IB	None	98034B HP-IB Interface	HP-IB Cable Integral Part of Interface Order extra 10833A/B/C/D as needed	—	EGS/45 CAP/45 and Tablet System Tools (HP 88100A — 9845B 88101A-9845C)	Tablet tools usable to create menus and drawings. Usable both interactively and programmatically	
HP 9000 Series 200	BASIC 2.0 or later Models 216, 217, 220, 226, 236, 237	9111A Opt 026 for Model 226 Opt 036 for Model 236	HP-IB	None	HP-IB Interface Standard	One 10833B sent with Interface Order extra as needed	BASIC 2.1-3.0 Operating System	HP-Draft 3.0 on (Requires BASIC 3.0 Models 220 & 236). Utility Software from Series 200 Exchange Library	Opt 026 & 036 provide extended BASIC statements on 5.25 in. disc for tablet I/O
	PASCAL 2.0 or later Models 216, 217, 220, 226, 236, 237	9111A	HP-IB	None	HP-IB Interface Standard	One 10833B sent with Interface Order extra as needed	PASCAL 2.1-3.0 Operating System	HP EGS on Models 220, 226, 236	—
	HP-UX 1.0 or later Models 217, 220, 236, 237	9111A	HP-IB	None	Order separate HP-IB Interface (98624)	No cable sent with Interface Order 10833A/B/C/D as needed	HP-UX 2.1 Operating System	Graphics/9000 DGL	Graphics/9000 provides graphics subroutines required for all graphics programming
HP 9000 Series 500	BASIC Models 520, 530, 540, 550, 560	9111A Opt 059	HP-IB	None	27110A HP-IB Interface	One 10833B sent with Interface Order extra as needed	BASIC 1.0 or later HP-UX 2.0 or later Operating System	HP-Design	—



























Tablets

Desktops



PERIPHERAL CONFIGURATION GUIDE

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HP

PERSONAL COMPUTERS

COMBINATIONS		DISC DRIVE			HOST				
Host	Disc Drive	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes		
HP Series 80, 9915	9121D/S 9122D/S 9133D/H 9134D/H 9153A 9154A 9895A†	9895A†, 9121D/S: 2/HP-IB Interface All others: 8/HP-IB Interface	HP-IB	None	HP-83/85/86A - 82937A HP-IB Interface HP-86B/87 - 45529 HP-IB Cable (or 10833) (86B and 87 ship with cable)	Data storage ROM 1. 00085-15001 Extended data storage ROMs 2. 00085-15013 3. 00087-15013 (See notes for required ROMs)		9121D/S 9895A†	9122D/S 913xD/H 915xA
							HP-83A HP-85A/9915A HP-85B/9915B HP-86A/87A/XM HP-86B CP/M	1 1 Yes Yes Yes Yes	No No 2 3 3 No
The HP Portable The HP Portable PLUS	9114B 9121D/S 9122D/S 9127A†† 9133D/H 9134D/H 9153A 9154A 9895A†	8/HP-IL Loop	9114B: HP-IL All others: HP-IB	9114B: One HP-IL cable All others: None	All systems require 82167A/B/D HP-IL cables. All HP-IB drives require 10833 HP-IB cable and the HP 82169A HP-IB to HP-IL convertor (S/N 2406 and higher)	The required operating system is built-in for all drives.	Reference Application Note 5954-1143 for the use of the HP-IB drives. Cannot initialize IBM format with the 9127A. Can read/write HP format and PC-DOS 2.0/2.1 discs only. Can only format 16 MB of the 20 MB hard discs. (9133H and 9134H)		
HP Touch-screen PC (150B) HP Touch-screen Max (150B)	9121D/S 9122D/S 9127A†† 9133D 9134D 9142A 9144A	8/HP-IB Interface	HP-IB	None	10833 HP-IB cable Note: Series 100 shipped with one HP-IB cable.	9142A and 9144A: Order Opt 150	The 9127A is to be used as an add-on only since software is distributed on 3½-inch media. For the 150B to support the 9133H, 9134H, 9153A, and the 9154A, order upgrade 45849-63006.		
HP Touch-screen II (150C) HP Touch-screen II Max (150C)	9122D/S 9123D 9127A†† 9133D/H/L 9134D/H/L 9142A 9144A 915xA	8/HP-IB Interface	HP-IB	None	10833 HP-IB cable Note: Series 100 shipped with one HP-IB cable.	9142A and 9144A: Order Opt 150 For the 9133L and the 9134L use max sector size of 1024 in device configuration.	The 9127A is to be used as an add-on only since software is distributed on 3½-inch media. Option 001 (1K sectors) is recommended but not required for the 9133L and the 9134L.		
HP 41 HP 71 HP 75	9114B	8/HP-IL Loop	HP-IL	One HP-IL cable	HP 41: 82160A HP-IL Module HP 71: 82401A HP-IL Module 82167A/B/D HP-IL cables	The required Op Sys is built into all hosts.	HP 41: Limited to 128 KB capacity. User's group utility, P/N 41-09114, extends data files to 630 KB.		
HP Vectra	45811A 45812A 45815A/K 45816A/M 45817A/M 9122D/S 9134H/L 9142A	Internal: 1 20-MB disc and 2 floppies or 1 40-MB disc and 1 floppy. External: 7 discs and 1 tape drive	Internal: Plug-in card through Vectra backplane. External: HP-IB	Internal: Cables are included (except for 45815K) External: None	Internal: None External: 88500A Disc and tape interface card (One HP-IB cable is sent with the card) Additional drives can use the same card but require an additional 10833 (HP-IB) cable.	MS-DOS 3.1 Software drivers for the external drives are sent with the 88500A card. (Version 2.0 or greater is required)	The 45815K is disc controller board only.		

†The 9895A will be discontinued 8/1/86.

††The 9157A replaces the 9125S.

COMBINATIONS		DISC DRIVE			HOST					
Host	Disc Drive*	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes			
HP Series 80 9915	8290xM 9130A (HP 86A) 9133A/B 9134A/B 9135A 9133V 913xXV	9130A: 2/HP 86A Interface All others: 2/HP-IB Interface (9133's count as 2)	9130A: dedicated All others HP-IB	9130A: Shipped with Interface Cable All others: None	HP 86A: Built-in only on 9130A HP 83/85/86A — 82937A HP-IB Interface HP 86B/87 — 45529 HP-IB cable (or 10833) (86B and 87 ship with cable)	HP 85B/86B built-in for all discs HP 83/85A/9915A: 00085-15001 Data storage ROM HP 86A/87 00087-15012 ROM required for 10 Mbyte support		HP 83 HP 85A CP/M	HP 85B HP 86B	HP 86A HP 87
							8290XM 9130A 913xA 913xA#010 9133V 9133V#004 913xXV#010 913xB	Yes No Yes No No Yes No	Yes No Yes Yes Yes Yes Yes	Yes 86A Yes Yes Yes W/ROM W/ROM
HP 120 HP 125 (Both discon- tinued 5/1/84)	8290xM 9133A/B 9134A/B 9133V 913xXV#010 9135A	2 Maximum (9133's and 9135 count as 2)	HP-IB	None	45529 HP-IB cable (or 10833) Note: One HP-IB cable is supplied with Series 100	913xA and 9133V#004: Op Sys A.01.20 or later Op Sys A.02.00 with Boot ROM 1818-3221 or later required for 913xB and 913xXV#010	The 913xB, 913xXV#010 and the 9133V are not recommended except for large file sizes that cannot be accommodated by the 9133V#004			
HP 150A HP 150B HP 150C	8290xM 9133A/B 9134A/B 9133V/XV 9134XV 9125S† 9135A	Up to eight HP-IB addresses.	HP-IB	None	10833 HP-IB Cable (or 45529)	To support the 9125S† on the HP150A, order upgrade #45849-63006.	The 9135A cannot be the system data storage because software is distributed on 3½-inch media			
The HP Portable The HP Portable PLUS	8290xM 9133A/B 9134A/B 9133V 913xXV 9135A 9114A†† 9125S†		HP-IB	None	All systems require 82167A/B/D HP-IL cables. All HP-IB drives require 10833 HP-IB cable and the HP 81169A HP-IB to HP-IL converter (S/N 2406 and higher)	The required operating system is built in for all drives.	Reference Application Note 5954-1143 for the use of HP-IB drives. Cannot initialize IBM format with the 9125S†. Can read/write HP format and PC-DOS 20/2.1 discs only			

*8290XM, 913xA/B, 9133V, 913xXV, 9125S, 9114A, 9135A, and the 9885 M/S are no longer in production. Support life ends: 8290XM — 7-1-90; 913xA/B — 7-1-89; 9133V — 7-1-90; 913xXV — 7-1-90; 9125S — 6-1-90; 9114A — 1-1-91; 9135A — 7-1-89; 9885M/S — 8-1-94.

†The 9114B has replaced the 9114A.

Discontinued Workstation Discs _____ Personal Computers

COMBINATIONS		PRINTER			HOST			NOTES	
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires		
Series 80 Models 85B 86B	2601A*	Std	RS-232-C	2601 Cable	82939A Serial I/F	Comes with printer	HP-85B requires 00085-15002 Plotter/Printer ROM		
	2602A*	046	HP-IB	None	82937A HP-IB Interface & Cable required for HP-85	10833 A, B, C or D			
	2671A* 2671G 2673A	Std							
	2932A 2934A	046							
	82905B* 82906A	001 — 110V 002 — 120V 003 — 220V 004 — 240V							
	2225A	Std	HP-IL	82167A (one each)	82938 HP-IL	Comes with printer			
	2225B	Std							
	2225C 2227A	Std						Centronics	None
2225D 2227A	Std	RS-232-C					None	82939A Serial I/F	13242G

*2601A, 2602A, 82905B, and 2671A are no longer in production. Shown for reference only.

Workstation Printers

Personal Computers

COMBINATIONS		PRINTER			HOST			NOTES	
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires		
Series 100 Portable Portable PLUS	2225B	Std	HP-IL	82167A	HP-IL Standard	Comes with host	—	—	
	2225D	Std	RS-232-C	None	RS-232-C Standard	92221P	—	—	
	2227A		Parallel and RS-232-C						
	2601A*	Std	RS-232-C	2601A Cable	RS-232-C Standard	92221P	—	2601A operates at 300 baud (Portable only)	
	2602A*			None					
	2603A	Std	RS-232-C	None	RS-232-C Standard	92221P	—	—	
	82905B*	140 240 340 440	Std	RS-232-C	None	RS-232-C Standard	92221P	—	—
		148 248 348 448		HP-IL	82167A	HP-IL Standard	Comes with host	—	—
	82906A	Std	HP-IB	None	Portable/Portable PLUS only 82169A (HP-IL to HP-IB Converter)	10833 A, B, C or D	—	—	

*2601A, 2602A, and 82905B are no longer in production. Shown for reference only.

Workstation Printers

Personal Computers

COMBINATIONS		PRINTER			HOST			NOTES
Host	Printer	Opt	Interface Type	Cable Sent with Printer	Printer Interface Required on Host	Cable Requirements	Host also Requires	
Vectra PC	2225C	Std	Centronics	None	24540A	24542D (25-pin)		
	2225D	Std	RS-232-C	None	24540A or 24541A	24542G (9-pin) for 24540A or 24541A (RS-232-C) 13242G (25-pin) for 24541A (RS-232-C/ RS-422-A)		
	2601A*	Std	RS-232-C	2601A Cable				
	2603A	Std	RS-232-C	None				
	2932A 2934A	Std	RS-232-C	None				
	2686A LaserJet	Std	RS-232-C	None				
	2686A LaserJet PLUS	300	RS-232-C	None				
	2686D LaserJet 500 PLUS	Std	RS-232-C	None				
	2686A LaserJet PLUS	300	Centronics	None				
	2686D LaserJet 500 PLUS	Std						
2932A 2934A	042							

*Product is no longer in production. Shown for reference only. 2601A taken off the C.P.L. 11/01/85.

Workstation Printers _____ **Personal Computers**

HOST/PRINTER COMBINATIONS			HOST REQUIREMENTS		OTHER INFORMATION	
Host	Printer	Interface Type	Printer Interface Recommended on Host	Recommended Cables	Notes	Configuration Application Note
HP 150 Touchscreen	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C		HP 13242-60010 16.7 ft (5 m) Male to Male Cable or HP 92219H 16 ft (5 m) Male to Male Cable (Xon/Xoff Only)	Connect from datacomm HP 150 port to printer interface connector	Part Number 5954-0797
HP 150 Touchscreen	LaserJet Plus (Parallel Interface) LaserJet 500 Plus (Parallel Interface)	Centronics Parallel	Parallel Port HP 95643A Extended I/O Accessory Card	HP 13242D 6.6 ft (2 m) Male to Female Cable		
HP Vectra	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C	HP 24540A Serial/Parallel Interface or HP 24541A Dual RS-232-C/RS-422-A Interface	HP 24542G Male 9-Pin to Female 25-Pin Cable (3 m)		
HP Vectra	LaserJet Plus (Parallel Interface) LaserJet 500 Plus (Parallel Interface)	Centronics Parallel	HP 24540A Serial/Parallel Interface	HP 24542D (2 m) Male 25-Pin to Male 36-Pin Cable or HP 92219K 9 ft (2.3 m) Male to Male Cable		
The Portable/Portable PLUS	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C		HP 92221P	Connect from 9-pin serial connector port to printer interface connector	

LaserJet Printers _____ Personal Computers









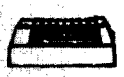
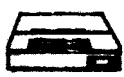














COMBINATIONS		PLOTTERS		HOST				NOTES
Host	Plotters	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires	Graphics Software	
HP-85B	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B Opt 058 7585B Opt 058 7586B Opt 058	HP-IB	None	82937A HP-IB Interface	One cable comes with interface. Order extra 10833A/B/C/D as needed.	82936A ROM Drawer 00085-15002 Plotter/Printer ROM	HP 82801A Graphics Presentation PAC* (Rev C — 7470: Graphics PAC not supported for 7475, 7550, or 758X).	Programming ability required without Graphics Presentation PAC. *Some Programs in Graphics Presentation PAC require simple modification to fit into HP-85B memory. 758X Opt 058 provides programming guide for Series 80 computers.
HP-86B with disc drive	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B Opt 058 7585B Opt 058 7586B Opt 058	HP-IB	None	HP-IB Standard	No cables with interface. Order one 10833A/B/C/D for plotter.	82936A ROM Drawer 00087-15002 Plotter ROM	HP 82831A Graphics Presentation PAC (Rev C supports 7475A, 7580B, and 7585B). Opt 630 (3.5-inch) Opt 650 (5.25-inch)	Programming ability required without Graphics Presentation PAC. 758X Opt 058 provides programming guide for Series 80 computers.
Portable, Portable PLUS with disc drive	7470A Opt 003	HP-IL	Required HP-IL cable included	HP-IL Standard	All Provided (1 HP-IL cable comes with each device)	HP 9114A or B or HP-IB Drive and HP-IL/HP-IB Interface (82169A)	Lotus 1-2-3 PrintGraph DISC	*May also use HP-IB plotters (Opt 002) but requires HP-IL/HP-IB Interface (HP 82169A)
	7470A Opt 001 7475A Opt 001 7470A Opt 002* 7475A Opt 002*	RS-232-C Standard *(See notes for HP-IB support)	None	RS-232-C Standard	Order HP 92221P for RS-232-C. *Order 10833A and converter for HP-IB.			
HP 150	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A 7580B 7585B 7586B	RS-232-C Direct	3 m Male-Male Cable (17255M) Standard with 758X Plotters	Two RS-232-C Ports Standard	7440, 747X & 758X: 13242G or 17255M 7550A: 17255D	MS-DOS 2.0 or later	74XX, 7550: Lotus 1-2-3 (no 7440 support) Symphony (Rev 1.1) 747X, 7550, 748X: Autocad, Plottrak, Pertplotter. 747X, 7550, 758X: Charting & Drawing Gallery, Picture Perfect, Diagraph	Graphics Software Guide 5953-9717, or Plotter Software Directory 5958-9310. HP-150 with HP 3000 Graphics Software: Plotter off port 2 is not supported — only HP-IB or eavesdrop. No eavesdrop for 7440.
	7440A Opt 002 7470A Opt 002 7475A Opt 002 7550A 7580B 7585B 7586B	HP-IB	None	HP-IB Standard	Order 10833A/B/C			
Vectra	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A 7580B 7585B 7586B 7510A	RS-232-C	None	24540A Serial Card (or the 24541A Dual Serial Card)	Order 24542G Cable 7550A: Order 24542H Cable	MS-DOS 3.1	74XX, 7550: Lotus 1-2-3 Rev 2, Symphony Rev 1.1 74XX, 7550, 758X, 7510: Picture Perfect, Diagraph 747X, 7550, 758X: Autocad, Cadkey.	Vectra Config. Guide 5954-2472D (-2478D). Graphics Software Guide 5953-9717, or Plotter Software Directory 5958-9310.

COMBINATIONS		TABLET		HOST				NOTES
Host	Graphics Tablet	Interface Type	Cable Sent with Tablet	Interface Required on Host	Cable Required	Host also Requires	Tablet Software	
HP-85B	9111A Opt 085	HP-IB	None	82937A HP-IB Interface	One cable comes with interface. Order extra 10833A/B/C/D as needed.	82936A ROM Drawer 00085-15002 Plotter/Printer ROM	—	Opt 085 provides a system tutorial and tablet tools for the HP-85.
HP-86B with disc drive	9111A Opt 086	HP-IB	None	HP-IB Standard	Order one 10833A/B/C/D for tablet.	82936A ROM Drawer 00087-15002 Plotter ROM & 00087-15003 I/O ROM	—	Opt 086 provides Programming Guide for Series 80. Tablet utilities also available from Series 80 Users' Library.

Tablets _____ Personal Computers



PERIPHERAL CONFIGURATION GUIDE

workstation discs						
workstation printers						
plotters						
tablets						



NON HP

PERSONAL COMPUTERS

COMBINATIONS		DISC DRIVE			HOST		
Host	Disc Drive	Maximum No. of Data Storage Systems	Type of Interface	Cables Sent with Disc	Interface and/or Cable Required	ROM, Driver, or System Required	Notes
IBM-PC IBM-XT IBM-AT	9134H/L 9142A 9154A	9134H/L and 9154A: 8/HP-IB Interface 9142A: 1/HP-IB Interface	HP-IB	None	88500A Disc and Tape Interface card. (One HP-IB cable is sent with the card). Additional drives can use the same card but require an additional 10833 (HP-IB) cable.	PC-DOS 2.0, 2.1, and 3.0 Software drivers are sent with 88500A card.	The 88500A card only works with these discs and tape.
Compaq Portable	9134H/L 9142A 9154A	9134H/L and 9154A: 8/HP-IB Interface 9142A: 1/HP-IB Interface	HP-IB	None	88500A Disc and Tape Interface card. (One HP-IB cable is sent with the card). Additional drives can use the same card but require an additional 10833 (HP-IB) cable.	MS-DOS 2.0 and 2.11 Software drivers are sent with 88500A card.	The 88500A card only works with these discs and tape. HP hard discs cannot be used as boot discs with MS-DOS 2.0.
AT&T 6300 Olivetti- M24	9134H/L 9142A 9154A	9134H/L and 9154A: 8/HP-IB Interface 9142A: 1/HP-IB Interface	HP-IB	None	88500A Disc and Tape Interface card. (One HP-IB cable is sent with the card). Additional drives can use the same card but require an additional 10833 (HP-IB) cable.	MS-DOS 2.11 Must have Version 2.0 or greater of 88500A software.	The 88500A card only works with these discs and tape.

Workstation Discs _____ Non-HP Personal Computers

HOST/PRINTER COMBINATIONS			HOST REQUIREMENTS		OTHER INFORMATION	
Host	Printer	Interface Type	Printer Interface Recommended on Host	Recommended Cables	Notes	Configuration Application Note
IBM PC & PC/XT	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C	Asynchronous Communications Adapter (Standard on the IBM PC/XT)	HP 17255D 3.3 ft (1 m) Male to Female Cable or HP 92219J 16 ft (5 m) Male to Female Cable		Part Number 5954-0796 Order from DMP*
IBM PC & PC/XT	LaserJet Plus (Parallel Interface) LaserJet 500 Plus (Parallel Interface)	Centronics Parallel		HP 24542D 6.6 ft (2 m) Male to Male Cable or HP 92219K 9 ft (2.3 m) Male to Male Cable		
IBM PC/AT	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C	IBM PC/AT Serial/Parallel Adapter	HP 24542G Special Male 25-Pin to Female 9-Pin RS-232-C Cable		Part Number 5954-0785
IBM PC/AT	LaserJet Plus (Parallel Interface) LaserJet 500 Plus (Parallel Interface)	Centronics Parallel	IBM PC/AT Serial/Parallel Adapter	HP 24542G 6.6 ft (2 m) Male to Male Cable or HP 92219K 9 ft (2.3 m) Male to Male Cable		
IBM PCjr	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C		IBM 8600026 Male 25-Pin to Female 9-Pin Cable and HP 17255D Male to Female Cable	Baud rate on LaserJet can only be configured 300-4800	
Wang PC	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C		HP 13242G Special RS-232-C Male to Male Cable	Some applications such as Multiplan, Lotus 1-2-3 or BASIC may not print on LaserJet without a special third-party driver	Part Number 5954-0792

*Direct Mail Projects 1-800-FOR-HPPC

LaserJet Printers _____ Non-HP Personal Computers

HOST/PRINTER COMBINATIONS			HOST REQUIREMENTS		OTHER INFORMATION	
Host	Printer	Interface Type	Printer Interface Recommended on Host	Recommended Cables	Notes	Configuration Application Note
Apple IIe	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C	Apple Super Serial Card Connector in Card Slot 2 (Apple P/N A2B0044)	HP 17355M Male to Male Cable		Part Number 5954-0794
Apple Macintosh	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C		HP 92219M Male 9-Pin to Male 25-Pin 5 ft (1.5 m)	Requires Third Party Driver. LaserStart HP P/N 35178M Order from DMK \$95.00	
Apple III	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C	Apple Modem Eliminator Cable (Apple P/N A3M0019)	HP 17355M Male to Male Cable	RS-232-C Serial Driver Configuration Needs Modification	Part Number 5954-0795
COMPAQ Portable	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C	Asynchronous Communications Adapter (RS-232-C Serial Card)	HP 17255M Male to Male Cable		Part Number 5954-2269
COMPAQ Portable	LaserJet Plus (Parallel Interface) LaserJet 500 Plus (Parallel Interface)	Parallel		HP 24542D Male 25-Pin to Male 36-Pin Cable		
DEC Rainbow 100	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C		HP 17355M RS-232-C Male to Male Cable		Part Number 5954-0793

LaserJet Printers _____ Non-HP Personal Computers

HOST/PRINTER COMBINATIONS			HOST REQUIREMENTS		OTHER INFORMATION	
Host	Printer	Interface Type	Printer Interface Recommended on Host	Recommended Cables	Notes	Configuration Application Note
AT&T PC 6300	LaserJet LaserJet Plus (RS-232-C Interface) LaserJet 500 Plus (RS-232-C Interface)	RS-232-C	RS-232-C is a standard interface on the AT&T PC 6300	HP 17255D 3.3 ft (1 m) Male to Female Cable or HP 92219J 16 ft (5 m) Male to Female Cable	Needs MS-DOS Version 2.11 Release 1.1	Part Number 5954-2281
AT&T PC 6300	LaserJet Plus (Parallel Interface) LaserJet 500 Plus (Parallel Interface)	Centronics Parallel	Parallel Interface is standard on the AT&T PC 6300	HP 24542D 6.6 ft (2 m) Male to Male Cable or HP 92219K 9 ft (2.3 m) Male to Male Cable		

LaserJet Printers _____ Non-HP Personal Computers

COMBINATIONS		PLOTTERS		HOST				NOTES
Host	Plotters	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires	Graphics Software (See Plotter Software Directory P/N 5958-9310)	
IBM PC & PC-XT	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A, 7510A 7580B, 7585B, 7586B	RS-232-C	Standard cable included with 758X not used in this config.	IBM Asynchronous Communications Adapter	74XX & 758X Cable: HP 17255D 7550A & 7510A Cable: HP 17255F	Color Graphics Adapter & Graphics Monitor for Screen Graphics	7510A Support: Picture Perfect, Diagraph, Keychart, MS Chart, Chart-Master, Sign-Master, Diagram-Master, Map-Master, Slidewrite	More 7510A Support: Slidewrite Plus & Graphics Gallery
IBM AT	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A, 7510A 7580B, 7585B, 7586B	RS-232-C	Standard cable included with 758X not used in this config.	Serial/Parallel Adapter standard on IBM-AT	74XX & 758X Cable: HP 24542G 7550A & 7510A Cable: HP 24542H	Color Graphics Adapter & Graphics Monitor for Screen Graphics	Many IBM PC-XT packages also work with IBM AT. Consult software supplier for details.	See IBM PC & PC-XT listing for 7510A support
IBM PC jr	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	IBM Asynchronous Communications Adapter	Order 2 cables: IBM Serial Device Adapter Cable plus: 74XX: 17255D 7550A: 17255F	Monitor	Many IBM PC packages also work with PC jr. Consult software supplier for details.	
Apple IIe with Disk II	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	Apple Super Serial Card (A2B0044)	74XX Cable: HP 17355M 7550A Cable: HP 17355D	—	See Plotter Software Directory (P/N 5958-9310)	
Apple IIc	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	RS-232-C Interface Standard **Must configure IIc port for communications mode — port 2 recommended	74XX: Apple Cable A9C0308 7550A: Apple Cable A9C0308 plus HP 92222F or HP 17355F*	—	Many Apple IIe packages also work with the IIc. Consult software supplier for details.	*HP 17355F is longer than HP 92222F
Macintosh Macintosh Plus	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	RS-232-C Interface Standard	Macintosh:* 74XX: 92219M 7550A: 92219M plus HP 17355F Mac Plus:* 74XX: 92219M plus Apple 699-0372. 7550A: See Notes.	—	Need Macintosh plotter drivers (P/N HP 35184B). See Macintosh Set-Up Guide (P/N 5954-7109) for more details.	Mac Plus Cabling: 7550A: 92219M plus Apple 699-0372 plus HP 17355F *See Set-Up Guide P/N 5954-7109 for more details

Plotters _____ **Non-HP Personal Computers**

COMBINATIONS		PLOTTERS		HOST				NOTES
Host	Plotters	Interface Type	Cable Sent with Plotter	Interface Required on Host	Cable Required	Host also Requires	Graphics Software (See Plotter Software Directory P/N 5958-9310)	
AT & T PC 6300	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	Serial Communications Port Standard	74XX Cable: HP 17255D 7550A Cable: HP 17255F	—	See Plotter Software Directory (P/N 5958-9310)	
COMPAQ	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A, 7510A 7580B, 7585B, 7586B	RS-232-C	None	Asynchronous Communications Adapter	Same as corresponding IBM model	—	Many IBM PC packages also work on the Compaq. Consult software supplier for details.	See IBM PC & PC-XT listing for 7510A support
T.I. Pro	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	Synchronous/Asynchronous Communications Board (T.I. #2223238-0001)	74XX Cable: HP 13242G 7550A Cable: HP 17255D	—	See Plotter Software Directory (P/N 5958-9310)	
DEC 100 Rainbow	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	Serial Printer Port Standard	74XX Cable: HP 17355M 7550A Cable: HP 17355D	—	See Plotter Software Directory (P/N 5958-9310)	
DEC 350 PRO	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	Serial Printer Port Standard	Order 2 cables: DEC BCC05 plus 74XX: HP 17355M 7550A: No cable needed	—	See Plotter Software Directory (P/N 5958-9310)	
WANG PC	7440A Opt 001 7470A Opt 001 7475A Opt 001 7550A	RS-232-C	None	Asynchronous Serial Port	74XX Cable: HP 13242G 7550A Cable: HP 17255D	—	See Plotter Software Directory (P/N 5958-9310)	

Plotters _____ Non-HP Personal Computers

HP 3000 Series III

7970B: 7970B and 7970BN no longer in production after November 1, 1986. 7970ER/BR available as remarketed products from FRD.

Initial drive with 30215A interface cable:
Lo-boy cabinet 7970BR Option 324

7970E: 7970E and 7970EN no longer in production after November 1, 1986. 7970ER/BR available as remarketed products from FRD.

Initial master drive with 30215A interface cable:
Lo-boy cabinet 7970ER Option 324
No cabinet* 7970E Option 151#

7976AR: NO LONGER IN PRODUCTION (NOT ORDERABLE).

HP 3000 Series 30/33

7970E: 7970E and 7970EN no longer in production after November 1, 1986. 7970ER/BR available as remarketed products from FRD.

Initial master drive with HP-IB interface:
Lo-boy cabinet 7970ER Option 426

7976AR: NO LONGER IN PRODUCTION (NOT ORDERABLE).

HP 3000 Series 37

7974A: See 7974A options in the HP 3000 39, 40/42, 44/48, 58, 64/68 section below.

7978A: NO LONGER IN PRODUCTION (NOT ORDERABLE).

See 7978A options in the HP 3000 39, 40/42, 44/48, 58, 64/68 section below.

7978B: See 7978B options in the HP 3000 39, 40/42, 44/48, 58, 64/68 section below.

9144A: No options available.

35401A: No options available.

HP 3000 Series 39, 40/42, 44/48, 58, 64/68/70

7970E: 7970E and 7970EN no longer in production after November 1, 1986.

Initial master drive with HP-IB interface:
Lo-boy cabinet 7970ER Option 426
Upright cabinet 7971AR Option 340

7974A:

1600 cpi drive with HP-IB interface:
Upright cabinet 7974A

800/1600 cpi drive with HP-IB interface:
Upright cabinet 7974A Option 800

7976AR: NO LONGER IN PRODUCTION (NOT ORDERABLE).

7978A: NO LONGER IN PRODUCTION (NOT ORDERABLE).

1600/6250 cpi drive with HP-IB interface:
Upright cabinet 7978A

7978B:

1600/6250 cpi drive with HP-IB interface:
Upright cabinet 7978B
Without cabinet (OEM only) 7978B Option 135

* Order 26074A Installation kit to mount drive in bottom of 7971A

9144A: No options available.

35401A: No options available.

HP 1000 Series M,E,F (Operating under RTE-6/VM, RTE-IVB, RTE-IVE, RTE-M, RTV-II)

7970B: 7970B and 7970BN no longer in production after November 1, 1986. 7970ER/BR available as remarketed products from FRD.

Initial drive with 13181B interface kit:

Lo-boy cabinet	7970B Option 226@
No cabinet*	7970B Option 236@
Upright cabinet	7971A Option 250
(2) 7970B in 7971A cab.	7971A Option 251

Add-on drive with multi-unit cable:

No cabinet*	7970B Option 230
Upright cabinet	7971A Option 210
(2) 7970B in 7971A cab.	7971A Option 211

7970E: 7970E and 7970EN no longer in production after November 1, 1986. 7970ER/BR available as remarketed products from FRD.

Initial Master drive with 13183B interface kit:

Lo-boy cabinet	7970E Option 226@
No cabinet*	7970E Option 236@
Upright cabinet	7971AR Option 260@

Add-on Master drive with multi-unit cable:

No cabinet*	7970E Option 230
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7974A: Requires 93741A & RTE-6/VM Options (see previous page)

7976AR: NO LONGER IN PRODUCTION (NOT ORDERABLE).

7978A: NO LONGER IN PRODUCTION (NOT ORDERABLE). Requires 93741A & RTE-6/VM Options (see previous page).

7978B: Requires 93741A & RTE-6/VM Options (see previous page).

HP 1000 A Series (Operating under RTE-A.1)

7970E: 7970E and 7970EN not orderable after November 1, 1986.

Initial master drive with HP-IB interface:

Lo-boy cabinet	7970ER Option 626
Upright cabinet	7971AR Option 140

7974A: Requires RTE-A & A.84 Options (see previous page)

7976AR: NO LONGER IN PRODUCTION (NOT ORDERABLE).

9144A: Requires A.84 version of RTE-A (performance improvements with B.85)

*Order 26074A Installation kit to mount drive in bottom of 7971A

HP 9000 Series 200,300,500

9144A No options available

S200 — Basic 2.0 with extensions or 3.0 or later Pascal 2.1 or 3.0 or later

S300 — Basic 4.0 or HP-UX 5.0 or Pascal 3.1

S500 — Basic 2.0 or HP-UX 4.0

35401A: No options available

S200 — Basic 4.0, Pascal 3.1, or HP-UX 5.1

S300 — Basic 4.0, Pascal 3.1, or HP-UX 5.1

S500 — HP-UX 5.0

7974A:

S300/500 — HP-UX 4.0 or greater Options (see previous page)

S500 — Basic 2.0

7978B

S300 — HP-UX 5.0 or greater Options (see previous page)

S500 — HP-UX 4.0 or greater

26072A: 7970E Parallel to HP-IB Conversion Kit.

Converts master 7970E with parallel differential interface to HP-IB. Order when upgrading 3000 Series II/III to Series 3x/4x/6x or 1000 Series M/E/F to A series. Contains: HP-IB assembly, 6 m HP-IB cable, power sequencer, jumper wires, fan assembly, fan cables, miscellaneous cables, miscellaneous hardware, and installation instructions. Price includes CE installation.

Order standard kit for conversion of 7970E in lo-boy cabinet.

Option 001:

Deletes fan assembly and fan cables. Order when converting 7970E in upright cabinet. If customer has tape drive in old Series II/III cabinet, they must also order 26078A kit. (Old cabinet does not provide sufficient cooling or counter balances for UL approval.) If customer has 2000 M/E/F with tape unit and additional equipment racked in the same cabinet, heat dissipation requirements must be investigated.

Option 002:

Adds new read mother board (part number 07970-62392). Order when converting 7970E drive with serial number less than 1822Axxxxx. For drives with serial number above 1822Axxxxx, existing board will be modified.

Note: Tape drive in lo-boy cabinet cannot be converted to upright cabinet. The two cabinets require different tape transport castings.

26072A Option H01: 7970E HP-IB to HP-IB Conversion Kit.

Order when upgrading 3000 Series 30/33 to Series 39/4x/6x and tape drive serial number is less than 2034Axxxxx. Contains: new HP-IB assembly (part number 07970-62417). Inspect tape unit prior to ordering option since many older units have already been upgraded through normal service activity.

26074A: 7971A Bottom Drawer Installation Kit.

Order when installing rackmount 7970B/E in bottom half of 7971A upright cabinet. Contains: support rails, mounting bracket, cosmetic panels to fit around drive, miscellaneous hardware, and installation instructions.

Note: Tape drive in lo-boy cabinet cannot be mounted in upright cabinet. The tape transport casting for the lo-boy is completely different than the casting for the upright.

26075A: Multiple System Access Selector.

Allows manual switching of 7976AR or 2680A between three different 3000 Series 3x/4x/6x systems. Contains: HP-IB switch box, user manual. Does not include HP-IB cables. Cannot configure system disc on same GIC with switch box. (The 7970B/E, 7974A, 7978A, and 7978B are not currently supported on the switch.)

26077A: 7970E Slave to Master Conversion Kit.

Converts 7970E slave drive to master for parallel differential interface. For use with 1000 M/E/F Series, must also order 13183B interface kit. For use with 3000 Series III, must also order 30215-60003 cable. For use with HP-IB system, refer to 26072A kit.

Option 001:

Adds new power transformer. Order when slave unit serial number is less than 1647Axxxxx.

26078A: 7971A Upright Cabinet Kit.

Contains stand-alone 7971A upright cabinet with hardware to mount one 7970B/E in top half of cabinet.

Option 001:

Adds additional hardware for mounting second drive in bottom half of 7971A cabinet.

Note: Tape drive in lo-boy cabinet cannot be mounted in upright cabinet. The tape transport casting for the lo-boy is completely different than the casting for the upright.

88700A: 7974A NRZI Upgrade Kit.

Converts single density drive (1600 cpi) to dual density (1600/800 cpi). Contains dual density read/write head, and NRZI formatting board.

88702A: 7978A to 7978B Upgrade Kit.

Converts the 7978A to the 7978B with performance enhancements. Contains new master controller, new upper reel motor, EOT/B0T harness assembly and miscellaneous hardware.

Appendix B

System Disc Accessories and Field Upgrades

Accessories Part #	Description	Available From
10833A	1 m (3.3 ft HP-IB cable)	DMK
10833B	2 m (6.6 ft HP-IB cable)	DMK
10833C	4 m (13.2 ft HP-IB cable)	DMK

Rackmount Kits for the 19" EIA Cabinet

12904A	7906	DMD
19500B	7941/45A	DMD
19501B	7942/46A	DMD
19507B	7907A	DMD
19510B	7906	DMD

Multi-Unit Cables (MAC Family)

13013-60012	3.7 m (12 ft)	DMD
13013-60011	1.8 m (6 ft)	DMD
13013-60014	5.5 m (18 ft)	DMD

Data Cables (MAC Family)

13013-60002	3.6 m (10 ft)	DMD
13013-60001	7.6 m (25 ft)	DMD
13013-60004	22.9 m (75 ft)	DMD

Multi-Unit Cable (1000's)

13178C	4.9 m (16 ft)	DMD
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Media

12940A	7906 (9.8 Mbyte) cartridge	DMK
13394A	7920 (50 Mbyte) pack	DMK
13356A	7925 (120 Mbyte) pack	DMK
97935A	7935 (404 Mbyte) pack	DMK
97905A	7907 (20.5 Mbyte) cartridge	DMK
88140SC	16.7 Mbyte tape cartridge	DMK
88140LC	67 Mbyte tape cartridge (Note: 7908/11/12/14/42/46 and 9144A tape media)	DMK

MAC Family Field Conversions

To convert a 7906/20/25S (slave) to a 7906/20/25M (master), order:

13037U	Controller	DMD
or		
13037U Opt 102	Controller with HP-IB	DMD

To convert a non-HP-IB MAC Family Drive (7906/20/25M) to HP-IB, order:

12745D	HP-IB Adapter Kit and 2 m HP-IB Cable	DMD
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793X Conversions

97935K	Converts 7933 to 7935	DMD
97930XP	Adds Controller Cache	DMD

Appendix C

REPLACEMENT CABLES

PERIPHERAL CONFIGURATION
GUIDE NUMBER

13222N
13242G
13242H
13242N
13242X
30062C
30062C OPT. 001
30062C OPT. 002

DMK REPLACEMENT
CABLE NUMBER

13222-60001
13242-60010
13242-60011
13242-60001
92218D
31391A
92215F
92215T

(Order All Replacement Cables from DMK)

FIELD INPUT

Are there cables you would like to see stocked at DMK for quick delivery? If so, list them and return this portion of the page to:

Russ Gordon
Direct Marketing Division
1320 Kifer Road
Sunnyvale, CA 94086

Stock the following cables for quick delivery.

TECHNICAL FEATURES	3 1/2" Single-sided Flexible Discs		3 1/2" Double-sided Flexible Discs			3 1/2" Portable Flexible Discs			3 1/2" Double-sided Flexible Discs		5 1/4" Flexible Discs
	9121D/S		9122D/S 9133D/H 9153A			9114B			9123D		9127A†
Formatted Capacity*	Dual	540 Kbytes	1260K	1420K	1576K	—	—	—	1420 Kbytes		360 KB (PCDOS)
	Single	270 Kbytes	630K	710K	788K	630K	710K	788K	—		240 KB (HP Format)
Bytes per Sector*	256		256	512	1024	256	512	1024	512		512 (PCDOS) 256 (HP)
Sectors per Track	16		16	9	5	16	9	5	9		8 or 9 (PCDOS) 16 (HP Format)
Recording Surfaces/Disc	1		2			2			2		2
Total Tracks per Surface#	70		80			80			80		40 (PCDOS) 35 (HP Format)
Tracks per Inch	135		135			135			135		48
Recording Format	Double Density		Double Density			Double Density			Double Density		Double Density
Max. Sustained Transfer Rate**	17.5 Kbytes/s		18 Kbytes/s			6 Kbytes/s			12.4 Kbytes/s		11.0 Kbytes/s
Average Access Time***	420 ms (on) 1420 ms (off)		478 ms (on) 938 ms (off)			478 ms (on) 2128 ms (off)			478 ms (on) 938 ms (off)		193 ms (on) 443 ms (off)
Rotational Speed	600 rpm		600 rpm			600 rpm			600 rpm		300 rpm
Media Part Number (10 pack)	HP 92191A		HP 92192A			HP 92192A			HP 92192A		HP 92190A

*Mainframe dependent — The following default values are used:
 — Series 200 256 bytes/sector — 630,784 bytes of capacity
 — HP 150 512 bytes/sector — 709,632 bytes of capacity
 — HP-UX 1024 bytes/sector — 788,480 bytes of capacity

**Mainframe dependent (use the following when the competition quotes mechanism transfer rates):
 3.5" Flexible — 500 Kbits/s
 5.25" Flexible — 250 Kbits/s
 8" Flexible — 500 Kbits/s
 3.5" Winchester — 4 Mbits/s
 5.25" Winchester — 5 Mbits/s

***Average Access Time is defined as the Average Seek Time + 1/2 of a rotational latency. Since this is independent of Transfer Rate, a device may have a faster Average Access Time than another device and a slower Transfer Rate than the same device.

#This includes usable tracks and tracks used for spares and system overhead.

†The 9127A replaces the 9125S.

TECHNICAL FEATURES	8" Flexible Discs		10 Mbyte Winchester	20 Mbyte Winchester	15 Mbyte Winchester	40 Mbyte Winchester
		9895A†	9153A 9154A	9133H 9134H	9133D 9134D	9133L 9134L
Formatted Capacity*	Dual	2.3 Mbytes	10 Mbytes	20 Mbytes	14.8 Mbytes	39.9 Mbytes
	Single	1.15 Mbytes		22.5 Mbytes (Opt. 001)	16.6 Mbytes (Opt. 001)	44.8 Mbytes (Opt. 001)
Bytes per Sector		256	256	256 1024 (#001)	256 1024 (#001)	256 1024 (#001)
Sectors per Track		30	29	32 9 (#001)	32 9 (#001)	32 9 (#001)
Recording Surfaces/Disc		2	2	4	4	5
Total Tracks per Surface#		77	698	612	459	977
Tracks per Inch		48	1100	580	580	960
Recording Format		Double Density (MMFM)	—	—	—	—
Max. Sustained Transfer Rate*		25.6 Kbytes/s	145 Kbytes/s	145 Kbytes/s	145 Kbytes/s	145 Kbytes/s
Average Access Time**		179 ms	85 ms	93 ms	93 ms	48 ms
Rotational Speed		360 rpm	3000 rpm	3600 rpm	3600 rpm	3600 rpm
Media Part Number (10 pack)		HP 91295A	—	—	—	—

*Mainframe dependent (use the following when the competition quotes mechanism transfer rates:

- 3.5" Flexible — 500 Kbits/s
- 5.25" Flexible — 250 Kbits/s
- 8" Flexible — 500 Kbits/s
- 3.5" Winchester — 4 Mbits/s
- 5.25" Winchester — 5 Mbits/s

**Average Access Time is defined as the Average Seek Time + 1/2 of a rotational latency. Since this is independent of Transfer Rate, a device may have a faster Average Access Time than another device and a slower Transfer Rate than the same device.

#This includes usable tracks and tracks used for system overhead and spares.

†The 9895A will be discontinued 8/1/86.

TECHNICAL FEATURES	20 Mbyte Vectra Internal Subsystem 45816A	40 Mbyte Vectra Internal Subsystem 45817A		
Formatted Capacity	20.07 Mbytes	42.25 Mbytes		
Bytes per Sector	256	512		
Sectors per Track	29	17		
Recording Surfaces/Disc	2	6 (1 servo)		
Total Tracks per Surface#	1405	977		
Tracks per Inch	1850	960		
Recording Format	—	—		
Max. Sustained Transfer Rate*	175 Kbytes/s	204 Kbytes/s		
Average Access Time**	83 ms	48 ms		
Rotational Speed	3000 rpm	3600 rpm		
Media Part Number (10 pack)	—	—		

*Mainframe dependent (use the following when the competition quotes mechanism transfer rates:

- 3.5" Flexible — 500 Kbits/s
- 5.25" Flexible — 250 Kbits/s
- 8" Flexible — 500 Kbits/s
- 3.5" Winchester — 4 Mbits/s
- 5.25" Winchester — 5 Mbits/s

**Average Access Time is defined as the Average Seek Time + 1/2 of a rotational latency. Since this is independent of Transfer Rate, a device may have a faster Average Access Time than another device and a slower Transfer Rate than the same device. Product data sheet may not include the 1/2 latency.

#This includes usable tracks and tracks used for system overhead and spares.

TECHNICAL FEATURES	1/4"		1/4"			
	Tape Backup 9142A		Tape Backup 9144A			
Formatted Capacity	600 ft up to 60 MB	150 ft up to 15 MB	600 ft up to 67.1 MB	150 ft up to 16.7 MB		
Tracks per Tape	16		16			
User Blocks/Track (max)	600 ft 915	150 ft 228	600 ft 4096	150 ft 1024		
Frames/Block	6		6			
Bytes/Frame	up to 1024		256			
Tracks per Inch	64		64			
Recording Format	Encoding GCR Bit density 9600 bits/inch		Encoding MFM Bit density 10,000 bits/inch			
Recording Surfaces	1		1			
Max. Sustained Transfer Rate*	1.8 Mbytes/min (verify off) 1.0 Mbyte/min (verify on)		2.0 Mbytes/min			
Rotational Speed	(read/write) 62.5 inches/s (search/rewind) 90.0 inches/s		(read/write) 60 inches/s (search/rewind) 90.0 inches/s			
Media Part Number (Box of 5 Cartridges)	15 MB: 92242S 60 MB: 92242L		16.7 MB: 88140SC 67.0 MB: 88140LC			

*Mainframe dependent (use the following when the competition quotes mechanism transfer rates: 1/4" tape drives 600 Kbits/s.

FEATURES		7906††	7907	7941	7942	7911	7920†††	7945
P E R F O R M A N C E	Capacity	19.6 Mbytes	41 Mbytes	24 Mbytes	24 Mbytes	28.1 Mbytes	50 Mbytes	55 Mbytes
	Removable Media	9.8 Mbytes Removable	20.5 Mbytes Removable		.	.	50 Mbytes Removable	
	Average Data Transfer	749 Kbytes/s	600 Kbytes/s	500 Kbytes/s	500 Kbytes/s	983 Kbytes/s	749 Kbytes/s	500 Kbytes/s
	Average Seek	25 ms	30 ms	30 ms	30 ms	26.7 ms	30 ms	30 ms
	Cartridge Tape Drive (Back-up & I/O)				X	X		
	HP-IB	Opt 102 (Master) or "H" Series	X	X	X	X	Opt 102 (Master) or "H" Series	X
	Multi-CPU Capability	X (M or S)					X (M or S)	
R E L I A B I L I T Y	Error Correction	X (M and S)	X	X	X	X (Real-Time)	X (M and S)	X
	Internal Diagnostics		X	X	X	X		X
	Auto Head Alignment		N/A	N/A	N/A	N/A		N/A

*Data removability is supplied through the cartridge tape drive.

††Product discontinuance announced — end of production 10-1-85. Remarketed products available from FRD.

†††Product discontinuance announced — end of production 5-1-86. Remarketed products available from FRD.

FEATURES		7946	7912	7925†††	7914	7914TD**	7914CT	7933H
						7914ST**		
PERFORMANCE	Capacity	55 Mbytes	65.6 Mbytes	120 Mbytes	132.1 Mbytes	132.1/ 264.2 Mbytes	132.1 Mbytes	404 Mbytes
	Removable Media	.	.	120 Mbytes Removable	.	½" Mag Tape Std Additional Available	.	
	Average Data Transfer	500 Kbytes/s	983 Kbytes/s	749 Kbytes/s	983 Kbytes/s		983 Kbytes/s	1000 Kbytes/s
	Average Seek	30 ms	26.7 ms	25 ms	27.7 ms		27.7 ms	24 ms
	Cartridge Tape Drive (Back-up & I/O)	X	X		X	(Optional)	(Optional)	
	HP-IB	X	X	Opt 102 (Master) or "H" Series	X	X	X	X
	Multi-CPU Capability			X (M or S)				X
RELIABILITY	Error Correction	X	X (Real-Time)	X (M and S)	X (Real-Time)	X (Real-Time)	X (Real-Time)	X (Real-Time)
	Internal Diagnostics	X	X		X	X	X	X
	Auto Head Alignment	N/A	N/A		N/A	N/A	N/A	X

*Data removability is supplied through the cartridge tape drive.

**7914ST contains a 7974 mag tape, and may also include a cartridge tape.

†††Product discontinuance announced — end of production 6-1-86. Remarketed products available from FRD.

FEATURES		7935H	7933XP*	7935XP*				
P E R F O R M A N C E	Capacity	404 Mbytes	404 Mbytes	404 Mbytes				
	Removable Media	404 Mbytes		404 Mbytes				
	Average Data Transfer	1000 Kbytes/s	1000 Kbytes/s	1000 Kbytes/s				
	Average Seek	24 ms	24 ms**	24 ms**				
	Cartridge Tape Drive (Back-up & I/O)							
	HP-IB	X	X	X				
	Multi-CPU Capability	X						
R E L I A B I L I T Y	Error Correction	X (Real-Time)	X (Real-Time)	X (Real-Time)				
	Internal Diagnostics	X	X	X				
	Auto Head Alignment	X	X	X				

*Contains a cache memory for performance improvement on HP 3000 system.

**With 70% hit rate in controller cache total average Access Time is 14 ms.

Greeley Tape Operation

Tape Drives

FEATURES	7970B	7970E	7974A
Density	800 CPI	1600 CPI	1600 CPI 800 CPI optional
Format	NRZI ANSI Std	PE Ansi Std	PE NRZI optional ANSI Std
Approx Formatted Capacity (2400 ft reel)	20 Mbytes	40 Mbytes	40/20 Mbytes
Read/Write Tape Speed (Inches per Second)	45	45	100 (Streaming) 50 (Start/Stop)
Burst Transfer Rate*	36 Kbytes/sec	72 Kbytes/sec	160/80 Kbytes/sec
Rewind Speed	160 IPS	160 IPS	200 IPS
Interface	Parallel	Parallel or HP-IB	HP-IB
Tape Buffering	Tension Arm	Tension Arm	Tension Arm
Data Buffering	None	128 Byte (HP-IB only)	32 Kbyte FIFO Buffer
Operating Mode	Start/Stop	Start/Stop	Start/Stop or Streaming Mode
Cabinet Styles	Lo-boy, Upright (7971A), or Rackmount	Lo-boy, Upright (7971A), or Rackmount	Upright
Length of Cable	4.6 m	6 m	2 m

*Burst transfer rates do not necessarily reflect system throughput which varies depending upon application, file structures, and host/tape driver implementation.

FEATURES	7978A/B		
Density	6250/ 1600 CPI		
Format	GCR/PE ANSI Std		
Approx Formatted Capacity (2400 ft reel)	140/40 Mbytes		
Read/Write Tape Speed (Inches per Second)	75		
Burst Transfer Rate*	468/120 Kbytes/sec		
Rewind Speed (Inches per Second)	250 IPS		
Interface	HP-IB		
Tape Buffering	None		
Data Buffering	32/256 Kbyte FIFO Buffer		
Operating Mode	Streaming Mode		
Cabinet Styles	7978A Upright only 7978B Upright or Rackmount		
Length of Cable	2 m		

*Burst transfer rates do not necessarily reflect system throughput which varies depending upon application, file structures, and host/tape driver implementation.

FEATURES	9144A	35401A	
Density	10000 BPI	10000 BPI	
Format	HCD-75	HCD-75	
Approx Formatted Capacity (Mbytes)	16.7/67 Mbytes per cartridge	16.7/67 per cartridge 536.8 maximum	
Read/Write Tape Speed (Inches per Second)	60	60	
Burst Transfer Rate*	75 Kbytes/sec	75 Kbytes/sec	
Rewind Speed (Inches per Second)	90 Rewind and Search	90 Rewind and Search	
Interface	HP-IB	HP-IB	
Tape Buffering	None	None	
Data Buffering	12 Kbyte FIFO Buffer	12 Kbyte FIFO Buffer	
Operating Mode	Streaming Mode	Streaming Mode	
Cabinet Styles	Desktop ITF Package	Desktop ITF Package	
None	Length of Cable		

*Burst transfer rates do not necessarily reflect system throughput which varies depending upon application, file structures, and host/tape driver implementation.

FEATURES		2601A*	2602A*	2603A	82905B*	82906A	2225X
Supporting Division		VCD	VCD	VCD	VCD	VCD	VCD
Dot Matrix/Full Font		Full	Full	Full	7 × 9 Dot	7 × 9 Dot	11 × 12 Dot
Impact or Thermal		Impact	Impact	Impact	Impact	Impact	InkJet
Single Sheet Paper Roll or Fanfold Paper		Single Sheet or Fanfold	Single Sheet or Fanfold	Single Sheet or Fanfold	Fanfold	Single Sheet or Fanfold	Single Sheet or Fanfold
INTERFACES AVAILABLE	RS-232-C	Std	Std	Std	Opt	—	2225D
	HP-IB	—	Opt	—	—	Std	2225A
	8-Bit Parallel	—	—	—	Opt	—	—
	Data Link/MTS	—	—	—	—	—	—
	Centronics	—	—	—	Opt	—	2225C
Print Speed(s)		40 CPS	25 CPS	48 CPS	80 CPS	160 CPS	150 CPS
Paper Width		Up to 15"	Up to 15.2"	Up to 16.7"	Up to 10"	Up to 10"	8.5"
Expanded/Compressed Print		10 char/inch 12 char/inch	10 char/inch 12 char/inch	10 char/inch 12 char/inch 15 char/inch	Both	Both	Both
Raster/Graphics Dump		—	—	—	72 × 60 dots/inch	72 × 72 dots/inch	96 × 96 192 × 96 dots/inch
Multi-Lingual		Multi- Lingual Daisywheel	Multi- Lingual Daisywheel	Multi Lingual Daisywheel	—	Std	Std
Linedrawing Character Set		—	—	—	—	—	—
Math Character Set		—	—	—	—	—	—
Other		Letter Quality (*Discontinued)	Letter Quality (*Discontinued)	Letter Quality	Epson Printer (*Discontinued)	Epson Printer	2225B (HP-IL) ThinkJet

Vancouver Division

Workstation Printers

FEATURES		2932A	2934A	2671A*	2671G	2673A
Supporting Division		VCD	VCD	VCD	VCD	VCD
Dot Matrix/Full Font		9 × 12	9 × 12 or 18/36 × 24 Dots	7 × 11 Dot	7 × 11 Dot	7 × 11 Dot
Impact or Thermal		Impact	Impact	Thermal	Thermal	Thermal
Single Sheet Paper Roll or Fanfold Paper		Fanfold	Single Sheet or Fanfold	Roll or Fanfold	Roll or Fanfold	Roll or Fanfold
INTERFACES AVAILABLE	RS-232-C	RS-232-C Std RS-422-A Opt	RS-232-C Std RS-422-A Opt	RS-232-C Opt	RS-232-C Opt	RS-232-C Opt
	HP-IB	Opt	Opt	Std	Std	Std
	8-Bit Parallel	—	—	Opt	Opt	Opt
	Data Link/MTS	—	Opt	—	—	—
	Centronics	Opt	Opt	Opt	Opt	Opt
Print Speed(s)		200 CPS	200/67/40 CPS	120 CPS	120 CPS	120 CPS
Paper Width		Up to 15.75"	Up to 15.75"	8.5"	8.5"	8.5"
Expanded/Compressed Print		Both	Both	Compressed	Compressed	Both
Raster/Graphics Dump		90 × 90 dots/inch	90 × 90 dots/inch	—	90 × 90 dots/inch	90 × 90 dots/inch
Multi-Lingual		Std	Std	—	—	Std
Linedrawing Character Set		Std	Std	Std	Std	Std
Math Character Set		Std	Std	—	—	—
Other		—	Bar Codes & Near-Letter Quality	Alpha Only (*Discontinued)	Alpha & Graphics	Alpha & Enhanced Graphics

FEATURES		2563A	2564B	2566B	2567B	2680A
PERFORMANCE	LPM	300	600	900	1200	2700 LPM 45 PPM
	Pages/Hr*	480	960	1440	1920	180 to 2700
CHARACTERISTICS	Dot Matrix	Yes	Yes	Yes	Yes	Yes
	High Speed Draft	No	No	No	1600 LPM	No
Available Printer Interfaces		HP-IB RS-232-C RS-422-A 2680A Parr. Diff. Centronics MTS	HP-IB RS-232-C RS-422-A Centronics Dataproducts	HP-IB RS-232-C RS-422-A Centronics Dataproducts	HP-IB RS-232-C RS-422-A Centronics Dataproducts	HP-IB
CAPABILITY	Long Cables	RS-232-C 50 feet RS-422-A 4000 feet HP-IB Extenders 750 feet	RS-232-C RS-422-A HP-IB Extenders Dataproducts	RS-232-C RS-422-A HP-IB Extenders Dataproducts	RS-232-C RS-422-A HP-IB Extenders Dataproducts	HP-IB Extenders Up to 750 feet
	Data Comm	Remote Spooled via MTS **** Also 2334A	****			
FEATURES	Multiple Character Sets	16 Maximum Resident	16 Maximum Resident	16 Maximum Resident	16 Maximum Resident	32 Maximum Resident
	OCR***	OCR — A & B	OCR — A & B	OCR — A & B	No	OCR — A & B
	Barcode***	Yes	Yes	Yes	Yes	Yes
	Electronic Forms	No (Linedraw)	No (Linedraw)	No (Linedraw)	No (Linedraw)	Yes
	VFC	16 Channel Programmable	16 Channel Programmable	16 Channel Programmable	16 Channel Programmable	16 Channel Programmable
Graphics	70 × 72 DPI	70 × 72 DPI 140 × 144 DPI	70 × 72 DPI 140 × 144 DPI	70 × 72 DPI 140 × 144 DPI	180 × 180 DPI	

* Printer hourly volumes are estimates based on worldwide empirical data. The formula used was LPM × 60/30 lines per page × 80%.

*** Requires availability and installation of appropriate character set. Readers vary, so test these applications thoroughly before finalizing sale.

**** Refer to Modem Application Note 415-1 for HP 3000 (Part Number 5954-0789) for assistance; HP SUPPORT OVER MODEMS WITH MTS SOFTWARE OR 2334A.

FEATURES		2685B	OEM'ed from Canon	OEM'ed from Ricoh	2689A
			LaserJet Family 2686A, 2686D	2688A	
P E R F O R M A N C E	LPM	2700 LPM 45 PPM	480 LPM 8 PPM	720 LPM 12 PPM	2700 LPM 45 PPM
	Pages/Hr*	180 to 2700	100 to 480	180 to 600	180 to 2700
C H A R A C T E R I S T I C	Dot Matrix	Yes	Yes	Yes	Yes
	Full Font	No	No	No	No
Available Printer Interfaces		HP-IB	RS-232-C RS-422-A Centronics	HP-IB	Direct Channel Connect to Byte or Block Multiplexor
C A P A B I L I T Y	Long Cables	HP-IB Extenders Up to 750 feet	RS-232-C 50 feet RS-422-A 4000 feet	HP-IB Extenders Up to 750 feet	60 metres for Channel Cables 45 metres for Power Cables
	Data Comm	RJE MRJE NRJE	**** 2334A		
F E A T U R E S	Multiple Character Sets	32 Maximum Resident	2-8 on LJ 16 per page Maximum on LJ Plus	32 Maximum Resident	2 per Job Maximum
	OCR***	OCR — A & B	OCR A only	OCR — A & B	OCR — A & B
	Barcode***	Yes	Yes	Yes	Yes
	Electronic Forms	Yes	LJ Plus Only	Yes	Yes
	VFC	16 Channel Programmable	Programmable to 1/48 inch increments	16 Channel Programmable	16 Channel Programmable
Graphics	180 × 180 DPI	1/2 page at 75 DPI Full page at 150 DPI on LJ Plus	300 × 300 DPI	No	

* Printer hourly volumes are estimates based on pages per minute/30 lines × 80%.

*** Requires availability and installation of appropriate character set. Readers vary, so test these applications thoroughly before finalizing sale.

**** Refer to Modem Application Note 415-1 for HP 3000 (Part Number 5954-0789) for assistance; HP SUPPORT OVER MODEMS WITH MTS SOFTWARE OR 2334A.

FEATURES	7440A	7475A	7550A	7580B	7585B	7586B
Media Sizes ISO/ANSI	A4/A	A4/A or A3/B	A4/A or A3/B	A4/A thru A1/D	A4/A, A3/B, and A2/C thru A0/E	Sheets and Rolls: A4/A, A3/B, and A2/C thru A0/E
Number of Pens	8 in carousel	6 in carousel	8 in carousel	8 in carousel		
Pen/Media Combinations	Fiber-tip pens/paper Transparency pens/overhead transparencies & glossy paper	Fiber-tip/paper. Transparency pens/overhead transparencies & glossy paper. Refillable short-body drafting pens/double-matte polyester film.	Fiber-tip/paper. Transparency pens/overhead transparencies & glossy paper. Roller-ball/paper. Refillable drafting/vellum & double-matte polyester film. Disposable drafting/vellum & paper.	Fiber-tip pens/paper Roller-ball pens/paper & tracing bond Refillable drafting pens/vellum & double-matte polyester film Disposable drafting pens/vellum & paper		
Media Load Methods	Manual loading Individual sheets		Automatic feed of paper & transparencies Manual feed of all medias	Manual sheet loading for all medias		Automatic roll feed for paper, vellum, and double-matte polyester film. Manual sheet loading for all medias.
Interface Availability	RS-232-C (Opt 001) or HP-IB (Opt 002)	RS-232-C (Opt 001) or HP-IB (Opt 002)	RS-232-C and HP-IB	RS-232-C and HP-IB		
Speed & Acceleration	40.0 cm/s (15.7 ips) 1.2 g	38.1 cm/s (15.0 ips) 2 g	80 cm/s (31.5 ips) 6 g	60 cm/s (24.0 ips) 4 g		
Addr. Resolution	.025 mm (.001 in.)		.025 mm (.001 in.)	.025 mm (.000984 in.)		
Mechanical Resolution	.025 mm (.001 in.)		.006 mm (.00025 in.)	.003 mm (.00012 in.)		
Repeatability	.1 mm (.004 in.)		.1 mm (.004 in.)	.1 mm (.004 in.)		
HP-GL Commands	44	56	84	77		82
Character Sets	5, 1 font	19, 1 font	20, 2 fonts	21, 3 fonts		
Special Features	Optional 17440A cartridge has 14 more HP-GL commands	Area fill commands Chart rotate ability	12.8 K buffer Replot capability Downloadable character sets Area fill commands	Specified accuracy 18 K buffer Downloadable character sets Area fill commands		Same as 7580/85 plus long-axis plotting, unattended operation, and built-in accuracy calibration.

Color Film Recorders

FEATURES	7510A	
Interface	HP-IB and RS-232-C	35-mm Slide Film Supported: Kodachrome 25 and 64, Ektachrome 100 and 200, Polachrome 40, Fujichrome 100 and 200, Agfachrome 100 and 200 35-mm Print Film Supported: Kodacolor 100, Fujicolor 100 and Agfacolor 100 Polaroid Print Film Supported: Polacolor 331 and 339
Addressable Resolution	16,344 × 10,896 addressable points per frame.	
Instruction Set	HP-GL (plus 7550A paper mode).	
Internal Intelligence	Over 16 million colors, color palettes, polygon fill, automatic film advance, film compensation curves, exposure counter, camera module sensing, etc.	

FEATURES		2392A	2393A/2397A	2394A
P E R F O R M A N C E	SIZE	12"	12"	12"
	COLUMNS	80	80 - 160 SCROLLABLE	80
	LINES	24 25,26 LABELS 27TH STATUS	24 25,26 LABELS 27TH STATUS	24 25,26 LABELS 27TH STATUS
	CHARACTER CELL	9 × 14	8 × 14	9 × 14
	VIDEO ATTRIBUTES¹	U,I,B,HB,S	U,I,B,HB,S DBLE H/W	U,I,B,HB,S
	FIELD ATTRIBUTES²	P,UP	P,UP,T-O,MDT	P,UP,T-O,MDT
	FRONT PANEL CONTROLS	POWER AND BRIGHTNESS	POWER, BRIGHTNESS AND CONTRAST	POWER AND BRIGHTNESS
	TILT AND SWIVEL	BUILT-IN	BUILT-IN	BUILT-IN
	LOCAL EDIT CHECKS	NONE	3	11
	FORMS CACHE	NO	NO	YES
	PHOSPHOR	GREEN	2393A - GREEN 2397A - COLOR	GREEN
	GRAPHICS RESOLUTION	—	512H × 390V AND 640H × 400V	—
	MEMORY	UP TO 4 STD UP TO 8 OPT	UP TO 12 STD	UP TO 8 STD
	CHARACTER SETS	LINE DRAWING	LINE DRAWING MATH, BOLD, ITALIC	LINE DRAWING

¹U=UNDERLINE, I=INVERSE VIDEO, B=BLINKING, HB=HALF BRIGHT, S=SECURITY, DBLE H/W=DOUBLE HIGH/DOUBLE WIDE

²P=PROTECTED, UP=UNPROTECTED, T-O=TRANSMIT ONLY, MDT=MODIFIED DATA TAG

FEATURES		2392A	2393A/2397A	2394A
KEYBOARD	ITF KEYBOARD	YES	YES	YES
	HP HIL INTERFACE	NO	YES	NO
	NUMERIC PAD	YES	YES	YES
	EDITING KEYS ¹	IC,DC,IL,DL	IC,DC,IL,DL	IC,DC,IL,DL
	CURSOR KEYS	YES	YES	YES
	FUNCTION KEYS	8 TOTAL 8 USER DEFINABLE	20 TOTAL 12 USER DEFINABLE	16 TOTAL 8 USER DEFINABLE
	SCROLLING	JUMP AND SMOOTH	JUMP AND SMOOTH	JUMP AND SMOOTH
DATA COMM	MODE	CHAR, LINE, BLOCK	CHAR, LINE, BLOCK	CHAR, LINE, BLOCK
	SPEED	110 - 19,200	110 - 19,200	110 - 19,200
	INTERFACE	RS-232-C/RS 422	RS-232-C/RS 422	RS-232-C/RS 422
	X.25 PAD SUPPORT	YES	YES	YES
OTHER	ANSI	NO-COST OPTION	NO-COST OPTION	NO-COST OPTION
	TEK	—	4010/4014	—

¹IC=INSERT CHAR, DC=DELETE CHAR, IL=INSERT LINE, DL=DELETE LINE

FEATURES		2392A	2393A/2397A	2394A
CAPABILITIES OUTPUT	RS-232-C	OPT	OPT	OPT
	HP-IB	NO	OPT	NO
	CENTRONICS	OPT	OPT	OPT
	INTERNAL PRINTER	NO	NO	NO
CAPABILITIES INPUT	TABLET	NO	YES	NO
	TOUCHSCREEN	NO	YES	NO
	MOUSE	NO	YES	NO
	BARCODE	YES	YES	YES

PERIPHERALS CONFIGURATION GUIDE

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