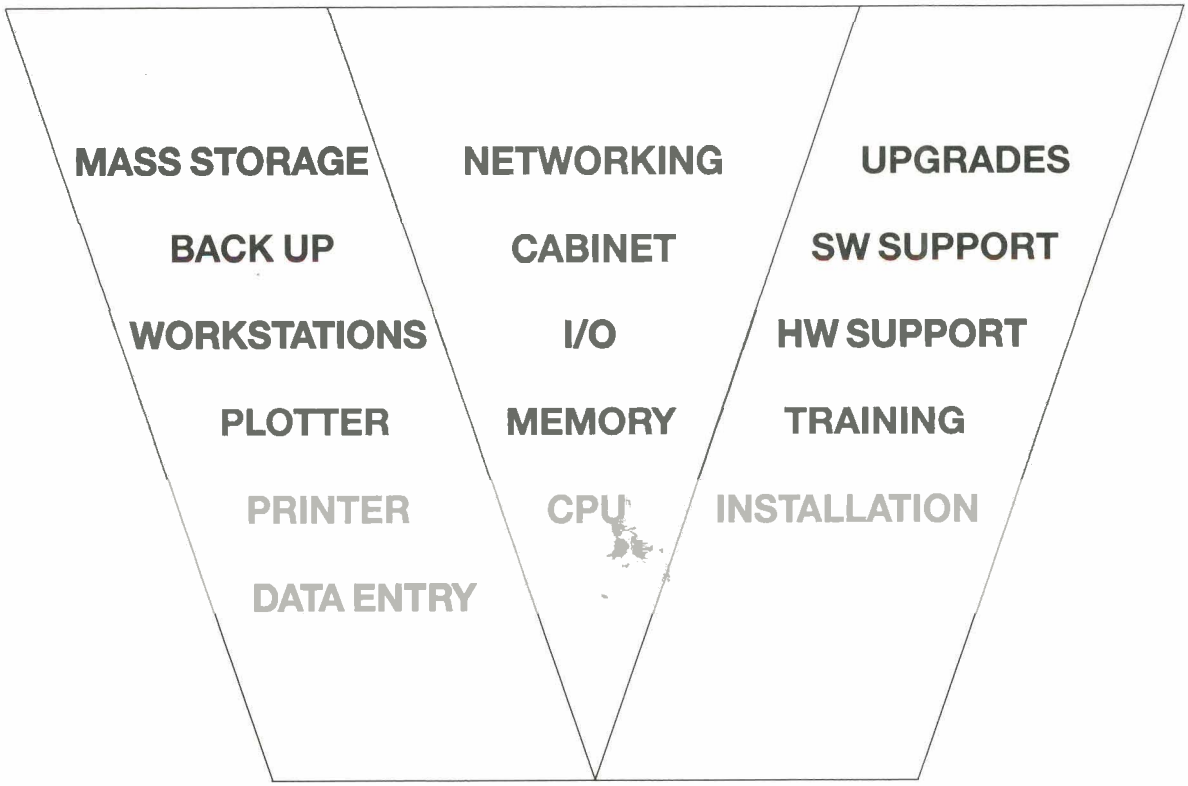
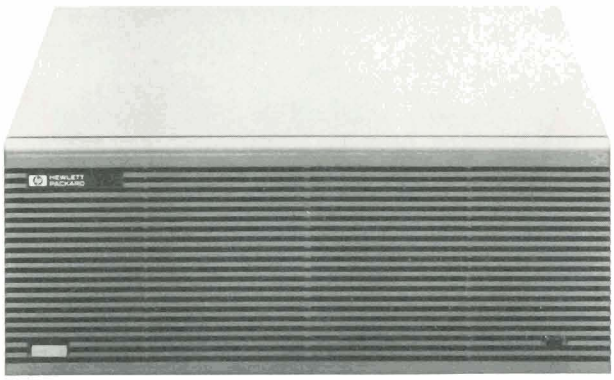
HEWLETT PACKARD

HP 260 Business Computer Systems





Configuration Guide

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PREFACE

The purpose of this guide is to help you select the optimal HP 260 configuration for your application and to document the configurations that are available. This guide is intended for use primarily by Hewlett-Packard Sales Representatives and HP 260 Value-Added System Suppliers.

To assure a correct configuration, VASS' and customers should always request a formal quotation from Hewlett-Packard rather than ordering from this guide.

Hewlett-Packard Sales Representatives should use this guide in conjunction with the *HP 260 Price Guide*, the Hewlett-Packard Corporate Price List, and the *Field Order Processing Guidelines*.

The information in this guide reflects the data available at the time of publication. Because Hewlett-Packard is continually enhancing existing products and introducing new ones, some information printed here may be not be current when you place your order. Please consult product-specific information when ordering peripherals to ensure selection from the latest product offerings.

NOTE

Unless otherwise stated, "HP 260" refers to the Series 30 and Series 40 systems. The previous HP 260 computer will be referred to by its SPU product number, HP 45261D.

NOTICE

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THINGS TO KNOW BEFORE YOU START

SECTION 1

This section describes the organization of this guide, the basic customer requirements you should know to configure a system, and conventions used here.

HOW THIS GUIDE IS ORGANIZED

The guide contains five sections and six reference appendices. A short description of each is given below.

- **Section 1**, "Things to Know Before You Start," is an introduction to the use of this guide.
- **Section 2**, "Configuring an HP 260 System," leads you through the configuration of a new HP 260 system from the SPU to training courses and consulting services.
- **Section 3**, "Adding to or Upgrading an Installed HP 260 System," lists the products which are ordered differently for installed systems than for new systems.
- **Section 4**, "Adding to or Upgrading an HP 45261D," contains information on upgrading the HP 45261D, as well as add-on products.
- **Section 5**, "Adding to or Upgrading an HP 250 System," contains information on HP 250 upgrades, as well as add-on products.
- **Appendix A**, "Configuring HP-IB Devices," is a reference for properly calculating HP-IB cable lengths by ascertaining device loads.
- **Appendix B**, "Cable Information," lists cables and also contains HP-IB, INP, and Asynchronous Serial Interface cabling diagrams.
- **Appendix C**, "Documentation," is a list of HP 260 manuals.
- **Appendix D**, "Sales Tools," is a list of available sales literature.
- **Appendix E**, "Approvals and Warranty," lists the safety, RFI, and data communication regulatory approvals the HP 260 has been awarded. An abridged description of warranty coverage is also included.
- **Appendix F**, "Peripheral Support Matrix", is a list of peripheral devices available for the system.
- **Appendix G**, "Printer Functionality for HP 260"
- **Appendix H**, "Configuration Summary," can be photocopied and used to compile all of your system selections.

BASIC CUSTOMER REQUIREMENTS

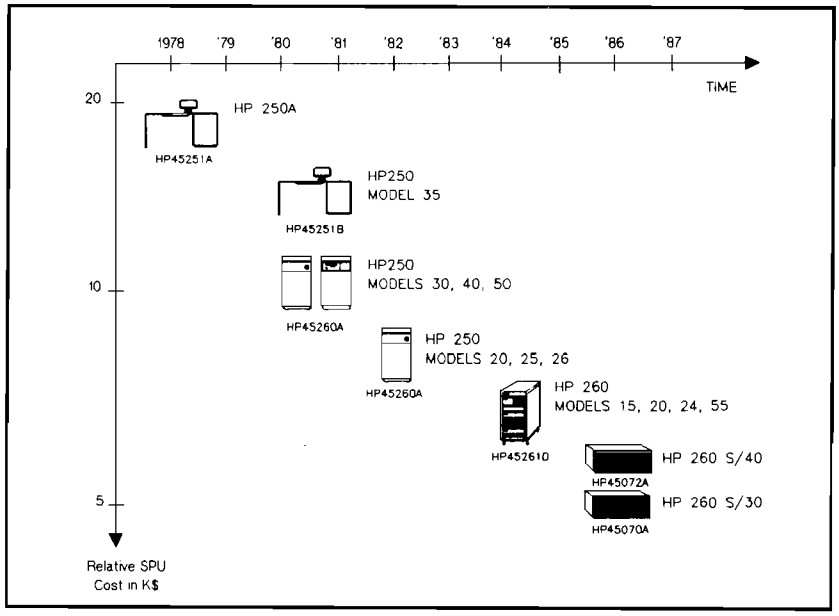
To successfully use this guide, you should first know the following:

- number of users
- number of concurrent tasks required
- amount of on-line disc storage required
- printing requirements for speed, carbons, and quality
- local language requirements
- power requirements (for example, voltage and type of power cord required)

You then proceed through the guide, marking the options you require to fulfill the requirements above. Appendix H provides a configuration summary, which can be photocopied and used to compile your selection.

CONVENTIONS

The following graph explains HP 260 and HP 250 SPU numbers:



Unless otherwise stated, "HP 260" refers to the Series 30 and Series 40 systems. The previous HP 260 computer is referred to by its SPU product number, HP 45261D.

Performance and capacity measurements used in this guide are conservatively presented.

NOTE

"Note" instructions in this guide contain important information regarding configuration possibilities or limitations, configuration dependencies, ordering tips, and any other special considerations.

UPDATE SHEET

Please note the updates and alterations below and write them into your configuration guide.

Page	Topic	Changes
2-6	HP 9145A	Delete star Alter first bullet point to read: '1/4" cartridge tape drive with max 134Mb' Delete 'To be announced'
2-8	Mass Storage and Backup Devices	Insert: HP 9145A/Tape cartridge 134 Mb/Hp-IB Interface HP 10833A cable
2-53	Cabinet for HP 45066A	Delete U.S./Canadian insert European
B-3	Current Loop Cables	Delete HP 45112A 1.5 meter modem cable(male/undetermined)
	RS-422 Cable	Add further line: 'Customer supplied 1 km max 2x twisted pairs 24 AWG low voltage cable'

Page C-1		
Preparing for your HP 260	Delete Spanish	45070-90603
Unpacking Instructions	Delete Spanish	45070-90602
Installing Your HP 260	Delete Spanish	45070-90066
Operating and Managing your HP 260	Add German Add French Add Italian	45261-90301 45261-90201 45261-90701
HP 260 Utilities	Add French Add Italian	45261-90261 45261-90761
Query Operator's Guide	Add German Add French Add Italian	45261-90305 45261-90205 45261-90705
Page C-2 Programming Manual Kit	Part number is:	45261-87901
BASIC programming	Add German	45261-90351

F-3	Supported Local Workstation Printers	Delete 700/72 substitute 700/92
F-4	Mass Storage	9145A* Delete star and 'to be announced' 9145A now reads: H - - L** - L** L** Add line: "** requires Loader-ROM with CD>2840"

CONFIGURING AN HP 260 SYSTEM

SECTION 2

You may want to use this section to help you plan your HP260 configuration on paper. By marking the appropriate boxes in each table, you can note down everything you need for your final configuration. If you wish, you may then present it to your SE.

THE BASIS OF YOUR SYSTEM

Two System Processor Units (SPUs) are available within the HP 260 family of business computer systems. They are described below.

The HP 260 Series 30 System Processor Unit (HP 45070A)

This SPU has the following standard features:

- 16-bit processor
- 512 Kb of RAM memory, providing 256 Kb of system memory and 256 Kb of user memory (up to four partitions of 64 Kb).
- Peripheral Interface Channel for HP-IB disc/backup devices and printers
- Two integrated RS-232-C ports for workstations and printers
- U.S./Canadian power cord (NEMA 5-15P)
- 100-250V, 50-60 Hz operation
- Operating System software on a 16 Mb tape cartridge
- Standard manual set in English
- System installation by Hewlett-Packard

The HP 260 Series 40 System Processor Unit (HP 45072A)

This SPU has the following standard features:

- 16-bit processor
- 1 Mb of RAM memory, providing 256 Kb of system memory and 768 Kb of user memory (up to 12 partitions of 64 Kb).
- Disc cache
- Peripheral Interface Channel for HP-IB disc/backup devices and printers
- Two integrated RS-232-C ports for workstations and printers
- U.S./Canadian power cord (NEMA 5-15P)
- 100-250V, 50-60 Hz operation
- Operating System software on a 16 Mb tape cartridge
- Standard manual set in English
- System installation by Hewlett-Packard

NOTE

The amount of user memory may be reduced, depending on the DROMs required by the individual application.

The two CPU-integrated RS-232-C ports can only be used for printers, HP 700/92 workstations, or PCs via direct or modem connections.

SPU

Product#	Description	
HP 45070A	HP 260 Series 30 SPU	
HP 45072A	HP 260 Series 40 SPU	

Power Cord Options

Option#	Description	
---	Standard U.S./Canadian power cord (NEMA 5-15P)	
900	British power cord, BS 1363A	
901	Australian/New Zealand power cord, ASC 112/NZSS 198	
902	European power cord, CEE7-VII	
904	U.S./Canadian power cord, 240V, NEMA 6-15P	
906	Swiss power cord, SEV 1011	
912	Danish power cord, DHCR 107	
917	South African power cord, SA	

Operating System Media Options

Option#	Description	
---	OS-software on 16 Mb tape cartridge	
045	OS-software on 3.5" micro-floppy discs	

Non-HP Installation Option

Option#	Description	
020	Delete HP installation	

For further details, see the paragraph on HP and non-HP installation.

Standard Manual Set Option

The English-language manual set is standard unless one of the local language options is specified. Not every local language manual set has every manual in it localized. If localized manuals are not available, English-language manuals will be substituted.

The set contains:

- Unpacking Instructions
- Installing your HP 260
- Operating and Managing your HP 260
- HP 260 Utilities
- Query operator's guide

Local language options for standard manual set

Option#	Description	
---	English standard manual set	
252	French standard manual set	
253	German standard manual set	
256	Spanish standard manual set	
257	Italian standard manual set	

Please refer to Appendix C for a complete list of HP 260 manuals available at the time of printing.

MASS STORAGE AND BACKUP DEVICES

When choosing a system disc, make sure you include a backup device (either separate or integrated)

NOTE

The HP 260 supports a **maximum of four mass storage and/or backup devices.**

The HP-IB cable between the SPU and a mass storage/backup device or between mass storage devices should be **no longer than one meter.**

For more information about configuring HP-IB devices, please refer to Appendix A.

See Appendix B for more specific cable information, including alternate cables and lengths.

HP 7946A

- 55Mb fixed disc drive
- 1/4 " cartridge tape drive with max. 67 Mb
- 1 meter HP-IB cable included

Option#	Description	
---	Standard US Version	
015	Voltage 230 VAC	
550	Delete HP-IB cable	

HP 7957B

- 81Mb fixed disc drive
- 1 meter HP-IB cable included

Option#	Description	
---	Standard US Version	
015	Voltage 230 VAC	
550	Delete HP-IB cable	

HP 7958B

- 152 Mb fixed disc drive*
- 1 meter HP-IB cable included

Option#	Description	
---	Standard US version	
015	Voltage 230 VAC	
550	Delete HP-IB cable	

*formatted capacity with B.09 Operating System is 132 Mb

HP 9144A

- 1/4 " cartridge tape drive with max. 67 Mb
- Capacity up to 16 or 67 Mb

HP 9145A*

- 1/4 " cartridge tape drive with max 1,34 Mb
- capacity up to 16, 67 or 134 Mb

*to be announced

HP 9153C

- 20 Mb or 40 Mb disc drive
- 3.5 " 2 Mb flexible disc drive (1.26 Mb formatted)

Product#	Description	
HP9153C	US version	
HP9153CA	African version	
HP9153CB	European version	
HP9153CG	Australian version	
HP9153CQ	Swiss-French version	
HP9153CU	English version	
HP9153CY	Danish version	

Option#	Description	
20	20 Mb 3.5 " hard disc with integrated 2 Mb 3.5 " flexible disc (1.26 Mb formatted)	
21	20 Mb 3.5 " hard disc	
40	40 Mb 3.5 " hard disc with integrated 2 Mb 3.5 " flexible disc (1.26 Mb formatted)	
41	40 Mb 3.5 " hard disc	

Mass Storage and Backup Devices

Device	Capacity (Mb)	Storage Media: Fixed Disc drive	Storage Media: 1.26 Mb (3.5") Microfloppy	Storage Media: 67 Mb max. Tape cartridge	Interface	Cable to be ordered
HP 7946A	55	•		•	HP-IB	**
HP 7957B	82	•			HP-IB	**
HP 7958B	152*	•			HP-IB	**
HP 9144A				•	HP-IB	HP 10833A
HP 9153C	20/40	•	opt(•)		HP-IB	HP 10833A

* Formatted capacity with Operating System B.09 is 132 Mb
** HP 10833A (1-meter HP-IB cable) supplied with disc

WORKSTATIONS

At least one workstation is required for each HP 260 system configuration. Three types of workstations are supported on the HP 260: video, asynchronous, and Personal Computers. The video workstation is the HP 45263D. The asynchronous workstation is the HP 700/92. Supported PCs include the HP Vectra, and the HP Portable PLUS. The IBM PC, PC AT, and PC XT can be used with an HP 260 system, but **are not supported by HP.** The workstations are described on the following pages, along with their product options.

Video Workstation

The video workstation (HP 45263D) is connected to the HP 260 system via a Video MUX interface channel.

NOTE

To connect a video workstation (HP 45263D) to the SPU, a Video MUX interface (HP 45126D) must be installed.

A **maximum of eight** video workstations can be connected to an HP 260 system.

The video workstations **cannot be used** with modems or with NETWORK/260 software.

The cable between a video workstation and the SPU can be **no longer than 100 meters.**

HP 45263D

The HP 45263D workstation includes the following:

- 12" high-resolution monochrome video monitor
- height-adjustable alphanumeric U.S. keyboard
- audio interface unit
- five-meter cable (HP 45262-61605)
- 120V, 60 Hz operation
- U.S. power cord (NEMA 5-15P)

HP 45263D cable options:

Option#	Description	
---	5-meter cable	
001	Replace 5-meter cable with 10-meter cable	
002	Replace 5-meter cable with 30-meter cable	
003	Replace 5-meter cable with 50-meter cable	
004	Delete 5-meter cable	

See Appendix B for more specific cable information.

HP 45263D keyboard override options:

Option#	Description	
---	U.S. keyboard	
252	French keyboard	
253	German keyboard	
254	U.K. English keyboard	
255	Swedish keyboard	
256	Spanish keyboard	
257	Italian keyboard	
258	Katanaka keyboard	
259	French-Canadian keyboard	
500	Danish keyboard	
501	Flemish keyboard	
502	Finnish keyboard	
503	Swiss-German keyboard	
504	Swiss-Roman keyboard	

HP 45263D power cord override options

Option#	Description	
---	Standard U.S. power cord (NEMA 5-15P)	
230	50 Hz or 60 Hz operation with switch-selectable voltage (120/230V) CEE7-VII)	
900	British power cord, BS 1363A	
901	Australian/New Zealand power cord, ASC 112/NZSS 198	
902	European power cord, CEE7-VII	
903	U.S./Canadian power cord, 120V, NEMA 6-15P	
904	U.S./power cord, 240V, NEMA 6-15P	
906	Swiss power cord, SEV 1011	
912	Danish power cord, DHCR 107	
917	South African power cord, SABS 164	

Asynchronous Workstation

The HP 700/92 is the asynchronous workstation for the HP 260. It is connected to the HP 260 either:

- over modems via RS-232-C interface on integrated or ASI ports
- directly via RS-232 interface on integrated or ASI ports
- directly via RS-422 interface on ASI ports

NOTE

If no video workstation is connected, the first asynchronous workstation has to be connected to the integrated port (RS-232-C only).

At least one HP 700/92 or a PC is **required** on ASI ports for use with workstation modem-connections or NETWORK/260 software.

The cable between an HP 700/92, using a direct RS-232-C interface, and the SPU can be no longer than 15 meters.

The cable between an HP 700/92, using an RS-422 interface, and the SPU can be no longer than 1300 meters

For RS-422 connections which allow the HP 700/92 workstation to be placed up to 1300 meters from the SPU, a **customer-supplied** RS-422 cable (24 AWG low-voltage computer cable) is required. See Appendix B for more specific information.

HP 700/92 Terminal

- 14-inch anti-glare screen
- RS-232-C printer port
- Up to 38,400 baud rate
- Inverse background
- Display off

Product#	Description	
C1001A	HP700/92 Terminal with amber display	
C1001G	HP700/92 Terminal with green display	
C1001W	HP700/92 Terminal with soft white display	

Local Country Option

Option#	Description	
ABA	U.S. KIT U.S. keyboard, English user manual, U.S. power cord	
ABB	STD EUR-US KIT U.S. keyboard, English user manual, European power cord	
ABC	CAN-FRENCH KIT Canadian-French keyboard, French user manual, U.S. power cord	
ABD	GERMANY KIT German keyboard, German user manual, European power cord	
ABE	SPAIN KIT Spanish keyboard, Spanish user manual, European power cable	
ABF	FRANCE KIT French keyboard, French user manual, European power cord	

Local Country Option (cont.)

ABP	SWITZ-FRENCH KIT Swiss-German keyboard, German manual, Swiss power cord	
ABQ	SWITZ-FRENCH KIT Swiss-French keyboard, French user manual, Swiss power cord	
ABR	REP. SOUTH AFRICA KIT U.S. keyboard, English user manual, S. African power cord	
ABS	SWEDEN KIT Swedish keyboard, Swedish user manual, European power cord	
ABU	UNITED KINGDOM KIT U.K. keyboard, English user manual, U.K. power cord	
ABW	BELGIUM-FLEMISH KIT Flemish keyboard, Dutch user manual, European power cord	
ABX	FINLAND KIT Finnish keyboard, Finnish user manual, European power cord	
ABY	DENMARK KIT Danish keyboard, Danish user manual, Danish power cord	
ABZ	ITALY KIT Italian keyboard, Italian user manual, European power cord	
ACC	UNITED KINGDOM-U.S. KIT U.S. keyboard, English user manual, U.K power cable	
ACD	SWITZ-U.S. KIT U.S. keyboard, English user manual, Swiss power cord	
ACE	DENMARK-U.S. KIT U.S. keyboard, English user manual, Danish power cord	
ACG	AUSTRALIA-U.S. KIT U.S. keyboard, English user manual, Australian power cord	

Cable Information

Product #	Description	
HP 40242M	For RS-232-C direct connection (5m.)	
HP 45111A and HP 40242M	For RS-232-C modem connection (4. 5m, SPU -> modem) For RS-232-C modem connection (5m, modem -> workstation)	
HP 40242C	For RS-232-C extension cable (5m)	

For more information on cables refer to Appendix B

NOTE

All HP cables provide RFI filtering. The HP 700/92 complies with RFI regulations only when used with these HP cables.

Personal Computers

Several Personal Computers (PCs) can be connected to the HP 260: HP Vectra Family, and HP Portable PLUS. The IBM PC, PC AT, and PC XT can be used with an HP 260 system, but are not supported by HP.

Due to the many part numbers, options, and configuration possibilities available for PCs, these products are not listed here. Please consult the individual PC configuration guides for complete information.

NOTE

All PCs require an RS-232-C or RS-422 port for connection to the HP 260.

The cable between a PC, using a direct RS-232-C interface, and the SPU can be no longer than 15 meters. The cable between a PC, using an RS-422 interface, and the SPU can be no longer than 1300 meters.

RS-422 connections between PCs and an HP 260 are allowed only HP Vectra PCs.

To use an IBM PC, PC AT, or PC XT with the HP 260, AdvanceLink terminal emulator software must be running on the PC.

Only HP PCs are supported by Hewlett-Packard.

HP Vectra PC Family(CS, CS Portable, ES, ES/12, RS/16, RS/20)

The Vectra PC Family includes a terminal emulation program allowing the use of the PC as a workstation. To enable file transfer capabilities between the PC and an HP 260, AdvanceLink (B.01.00 or later) terminal emulator software is required.

Cable information for HP Vectra - HP 260 connection

Product#	Description	
HP 24542M	For RS-232-C direct connection (3m)	
HP 45111A and HP 24542M	For RS-232-C modem connection (4.5m, SPU -> modem) For RS-232-C modem connection (3m, modem -> workstation)	
HP 40242C	For RS-232-C extension (5m)	

For more information on cables see Appendix B.

For RS-422 connections which allow the HP Vectra to be placed up to 1300 meters from the SPU, a customer-supplied RS-422 cable (24 AWG low-voltage computer cable) is required.

HP Portable PLUS

For the HP Portable PLUS to be used as an HP 260 workstation or to enable file transfer capabilities between the PC and the HP 260, REFLECTION I terminal emulator software is required.

Cable information for HP Portable PLUS - HP 260 connection

Product#	Description	
HP 99221M	For RS-232-C direct connection (1.5m)	
HP 99221M and HP 45111A	For RS-232-C modem connection (1.5m, modem -> HP Portable PLUS) For RS-232-C modem connection (4.5m, SPU -> modem)	
HP 40242C	For RS-232-C extension (5m)	

PRINTERS

At least one printer is required for each HP 260 system configuration. Please select the printer(s) and accessories that best meet your needs from the following tables.

NOTE

A printer using an RS-232-C interface requires one of the CPU-integrated RS-232-C ports or an Asynchronous Serial Interface board port. A printer using an RS-422 interface requires an Asynchronous Serial Interface board port.

The cable between a printer, using a direct RS-232-C interface, and the SPU can be no longer than 15 meters. The cable between a printer, using an RS-422 interface, and the SPU can be no longer than 1300 meters.

The HP 260 supports a maximum of two HP-IB printers.

HP-IB printers must be installed by HP.

The HP-IB cable between a mass storage/backup device and a printer or between printers should be no longer than two meters

For more information about configuring HP-IB devices, please refer to Appendix A.

See Appendix B for more specific cable information, including alternate cables and lengths.

For information about local printers, please refer to Appendix G.

Printer Product Suffixes and Options

Following is a list of printer products suffixes and options.

HP 2225D ThinkJet

- 150 cpi

The HP 2225D can be ordered with the following product suffixes, which determine the voltage requirements:

Product#	Description	
HP 2225DB	220V for Europe except Switzerland, Denmark and U.K.	
HP 2225DK	ICON for Australia (Option #12) or S. Africa (Option #14)	
HP 2225DQ	220V for Switzerland	
HP 2225DU	240V for U.K. and Africa	
HP 2225DY	220V for Denmark	

HP 2276A DeskJet Printer

- Letter-quality mode and draft mode
- RS-232-C and Centronics interface
- Built-in sheetfeeder (up to 100 sheets)

The HP 2276A can be ordered with the following product suffixes, which determine the country-specific version.

Product#	Description	
HP 2276 AA	South African version	
HP 2276 AB	European version	
HP 2276 AG	Australian version	
HP 2276 AK	ICON version (Power module NOT included)	
HP 2276 AQ	Swiss version	
HP 2276 AU	U.K. version	
HP 2276 AY	Danish version	

HP 2563B Line Printer

The HP-IB version of the HP 2563B printer does not allow the HP 260 Operating System to detect an off-line condition. Therefore, programs and commands addressed to the HP-IB HP 2563B will wait until the printer is on line before continuing execution.

- HP-IB interface, or RS-232-C interface
- 300 lines per minute

Option#	Description	
001	Line draw, math and block character sets	
002	Replace standard character set with Katakana 8 char set	
003	High density OCR-A and OCR-B character set	
004	High density Roman8 character set	
005	High density Italics Roman8 character set	
006	High density Katakana8 character set	
008	High density bar codes: 3 of 9 , 2 of 5 interleaved code, 2 of 5 industrial code, UPC A, UPC E, EAN 8, and EAN 13	
009	12, 13.3 cpi with Roman8	
012	12, 15 cpi with Roman8	
013	13.3, 15 cpi with Roman8	
015	220V, 50/60 Hz operation	
016	100V, 50/60 Hz operation	
017	240V, 50/60 Hz operation	
049	RS-232-C interface	
068	3-pack ribbon starter kit	
250	HPIB interface (incl. 2m HPIB cable)	
510	PACKAGE: Includes options 004, 005, 008 and 068	
715	Service documentation	

HP 2603A Office Printer

- Letter Quality
- 48 characters per second
- RS-232-C interface

A forms tractor and sheet feed are available for this product. They provide continuous paper and multipart form capabilities.

Country-specific Power Requirements

Product#	Description	
HP 2603AB	European version	
HP 2603AG	Australian, New Zealand, Uruguayan, Argentinian version	
HP 2603AK	ICON version	
HP 2603AQ	Swiss version	
HP 2603AU	U.K. version	
HP 2603AY	Danish version	

The following accessories can be ordered for the HP 2603A printer:

Product#	Description	
HP 26010A	Forms tractor	
HP 26030E	Sheet feeder	

HP 2932A Impact Printer

- 200 cps
- 136 columns
- RS-232-C interface

Product#	Description	
HP 2932A	Impact Printer with RS-232-C interface	

HP 2934A Impact Printer

- 200/67/40 cps
- Near letter-quality
- RS-232-C or HPIB interface

Product#	Description	
HP 2934A	Standard with RS-232-C interface Option #046: HPIB interface	

HP 33440A LaserJet Series II

- up to 8 pages per minute
- RS 232/422 and Centronics interface

NOTE

Centronics interface is not supported on HP 260.

The HP 33440A can be ordered with the following product suffixes, which determine the country-specific version.

Product#	Description	
HP 33440 AA	South African version	
HP 33440 AB	European version	
HP 33440 AD	German version	
HP 33440 AE	Spanish version	
HP 33440 AF	French version	
HP 33440 AP	Swiss version with German manual	
HP 33440 AQ	Swiss version with French manual	
HP 33440 AU	U.K. version	
HP 33440 AY	Danish version	
HP 33440 AZ	European version with Italian manual	

Printer Interfaces and Cables

Cable Information

Product #	Description	
HP 40242M	For RS-232-C direct connection (5m.)	
HP 45111A and HP 40242M	For RS-232-C modem connection (4. 5, SPU -> modem) For RS-232-C modem connection (5m, modem -> printer)	
HP 40242C	For RS-232-C extension (5m)	

For more information on cables refer to Appendix B

Comparison of Printer Features

Device	Print Method	Max. Speed	Print Volume	Print Quality	Max. Paper Width	Paper Type
HP 2225D	ink-jet dot matrix character	150 cps	light	memo	210 mm 8.5 in	continuous paper
HP 2227A HP 2228A	ink-jet dot matrix character	192 cps 48 cps	light	memo letter	381/248 mm 15 in./ 9.75 in.	continuous paper single sheet
HP 2235A	impact dot matrix character	480 cps 240 cps	light medium	memo letter	380 mm 14.95 in	continuous paper; multipart forms single sheet paper.
HP 2276A	ink-jet dot matrix character	240 cps 120 cps	light	memo letter	210 mm 8.5 in	single sheet
HP 2563B	impact dot matrix line	300 lpm	heavy	memo	424 mm 16.7 in	continuous paper; multipart forms
HP 2603A	impact daisywheel character	48 cps	light	letter	418 mm 16.4 in	single sheet paper; multipart forms
HP 2932A	impact dot matrix character	200 cps	medium	memo	400 mm 15.75 in	continuous paper; multipart forms
HP 2934A	impact dot matrix character	40/67 cps 200 cps	light medium	letter memo	400 mm 15.75 in	continuous paper, multipart forms
HP 30440A	laser	8 ppm	medium	near offset	216 mm 8.5 in	single sheet

PLOTTERS

The HP 260 supports three graphics plotters. Please select the one(s) which best meets your needs from the following tables. All three plotters are supported by the HP 260 office support software packages discussed later.

NOTE

All plotters require an Asynchronous Serial Interface board connection.

The cable between a plotter, using a direct RS-232-C interface, and the SPU can be no longer than 15 meters.

See Appendix B for more specific cable information, including alternate cables and lengths.

HP7440 Color Pro Graphics Plotter

- 8 pen
- A4 size
- RS-232-C interface

The HP 7440 can be ordered with the following options:

Product#	Description	
HP 7440 AA	220V South African power cord, English Operating Manual	
HP 7440 AB	220V European power cord, English Operating Manual	
HP 7440 AD	220V European power cord, German Operating Manual	
HP 7440 AE	220V European power cord, Spanish Operating Manual	
HP 7440 AF	220V European power cord, French Operating Manual	
HP 7440 AQ	220V Swiss power cord, German and French Operating Manual	
HP 7440 AU	240V UK power cord, English Operating Manual	
HP 7440 AY	220V Danish power cord, English Operating Manual	
HP 7440 AZ	220V European power cord, Italian Operating Manual	

HP 7475A Graphics Plotter

- 6 pen
- A4/A3 size
- RS-232-C interface

Product#	Description	
HP 7475 AA	220V South African power cord, English Operating Manual	
HP 7475 AB	220V European power cord, English Operating Manual	
HP 7475 AD	220V European power cord, German Operating Manual	
HP 7475 AF	European power cord, French Operating Manual	
HP 7475 AQ	220V Swiss power cord, German and French Operating Manual	
HP 7475 AU	240V UK power cord, English Operating Manual	
HP 7475 AY	220V Danish power cord, English Operating Manual	
HP 7475 AZ	220V European power cord, Italian Operating Manual	

HP 7550 Graphics Plotter

- 8 pen
- automatic sheet feed
- A4/A3 size
- RS-232-C interface

Product#	Description	
HP 7550 AA	220V South African power cord, English Operating Manual	
HP 7550 AB	220V European power cord, English Operating Manual	
HP 7550 AD	220V European power cord, German Operating Manual	
HP 7550 AE	220V European power cord, Spanish Operating Manual	
HP 7550 AF	220V European power cord, French Operating Manual	
HP 7550 AQ	220V Swiss power cord, German and French Operation Manuals	
HP 7550 AU	240V UK power cord, English Operating Manual	
HP 7550 AY	220V Danish power cord, Danish Operating Manual	
HP 7550 AZ	220V European power cord, Italian Operating Manual	

Cable Information for HP 7440A and HP7475A

Product#	Description	
HP 40242M	For RS-232-C direct connection (5m)	
HP 40242M and HP 45111A	For RS-232-C modem connection (5m) For RS-232-C modem connection (4. 5m)	

Cable Information for HP 7550

Product#	Description	
HP 40242C	For RS-232-C direct connection (5m)	
HP 45111A and HP 40424C	For RS-232-C modem connection (4. 5m, SPU -> modem) For RS-232-C modem connection (5m, modem -> plotter)	

For more information on cabling see Appendix B

Comparison of Plotter Features

	No. of pens		Media Types				Media Sizes			
				Transparency		Polyester				
Device	6	8	Paper	Film	Vellum	Film	8.5x11"	A4	11x17"	A3
HP 7440A		•	•	•			•	•		
HP 7475A	•		•	•			•	•	•	•
HP 7550A		•	•	•	•	•	•	•	•	•

DATA ENTRY DEVICES

Besides the asynchronous workstation and PCs, two types of data entry devices are supported on an HP 260 system: three barcode readers and an industrial workstation terminal. Other devices may be used for data entry with the HP 260, but they require additional or modified software not supplied by Hewlett-Packard.

NOTE

The HP 92916A and HP 92917A require a port on a workstation keyboard. The HP 39800A and HP 3081A require that an Asynchronous Serial Interface board be installed.

The cable connecting a data entry device, using a direct RS-232-C interface, and the SPU can be no longer than 15 meters. The cable connecting a single-channel RS-232-C adapter, using an RS-422 interface, and the SPU can be no longer than 1300m.

Appendix B contains more specific cable information.

Barcode Readers

Three barcode readers are supported: the HP 92917A, HP 92916A, and HP 39800A. The first two can be hooked up directly to keyboards; the HP39800A connects directly to the ASI board on the HP 260.

HP 92917A

The HP 92917A barcode reader is for use with the HP 700/92 workstation keyboard. It consists of a decoder pod, cable, wand, and wand holder. It can read the most commonly available codes: UPC/EAN/JAN, interleaved 2 of 5 code, two versions of Codabar (MHI standard USD-4 and the American Blood Commission standard), 3 of 9 code, and extended 3 of 9 code. The barcode reader attaches to a port on the keyboard.

HP 92916A

The HP 92916A barcode reader is for use with the HP 45263D video workstation and HP Vectra PCs. It consists of a decoder pod, cable, wand, and wand holder. It can read the most commonly available codes: UPC/EAN/JAN, interleaved 2 of 5 code, two versions of Codabar (MHI standard USD-4 and the American Blood Commission standard), 3 of 9 code, and extended 3 of 9 code. The barcode reader attaches to the HP-HIL port of the keyboard.

HP 39800A

The HP 39800A is a programmable barcode reader. It is capable of automatically recognizing and decoding 3 of 9 alphanumeric barcode, interleaved 2 of 5 code, and industrial 2 of 5 code. Messages in the 2 of 5 codes can be optionally length-checked for a valid checksum character. Up to 32 characters (not including start and stop characters) in any of the three standard barcodes are readable, and all barcodes can be scanned bidirectionally.

The HP 39800A requires an Asynchronous Serial Interface board port.

HP 39800A Options

Option#	Description	
001	Add UPC, EAN, JAN, barcode reading, delete industrial 2 of 5 code	
002	Add codabar code reading, delete industrial 2 of 5 code	
210	100V power supply	
222	220V power supply	
224	240V power supply	
320	Delete standard polycarbonate wand, add high resolution wand	
400	Delete standard wand, add standard industrial barcode wand	
420	Delete standard wand, add high resolution industrial barcode wand	
610	Mounting Kit	
910	Additional operating manuals	

Cable Information

Product#	Description	
HP 40242M	For RS-232-C connection (5m)	
HP 40242C	For RS-232-C extension (5m)	

Industrial Workstation Terminal HP 3081A

The HP 3081A is a character mode, industrial workstation terminal which may be mounted on a table or wall. The HP 3081A features an alphanumeric one-line display and a standard numeric keyboard. The following options are available for the HP 3081A workstation terminal:

Option#	Description	
004	Alphanumeric keyboard	
020	Mounting Bracket	
052	Medium resolution general purpose wand, codes 3 of 9 and interleaved 2 of 5	
053	High resolution general purpose wand, codes 3 of 9 and interleaved 2 of 5	
054	Low resolution industrial wand, codes 3 of 9 and interleaved 2 of 5	
055	High resolution industrial wand, codes 3 of 9 and interleaved 2 of 5	
056	High resolution slot reader, codes 3 of 9 and interleaved 2 of 5	
057	Low resolution slot reader, codes 3 of 9 and interleaved 2 of 5	

To use the HP 3081A with the HP 260, either a four-channel or single-channel RS-232-C adapter is required. You must use one of the following products with the HP 3081A:

Product#	Description	
HP 92922A Option 015	Four-channel RS-232-C adapter for use with the HP 3081A. Provides power for four HP 3081A's 220v, 50/60 Hz operation	
HP 92923A Option 015	Single-channel RS-232-C adapter for use with HP 3081A. Provides power for one HP 3081A. 230V operation	

The HP 92923A single-channel RS-232-C adapter can also be used for RS-422 connections, allowing the adapter and industrial workstation terminal to be placed up to 1300 meters from the SPU. A customer-supplied RS-422 cable (24 AWG low-voltage computer cable) is required.

To connect the RS-232-C adapter to the HP 260, the following cable is required:

Product#	Description	
HP 92218D	HP 92922A/92923A to system RS-232-C cable (15m)	

A two-meter current loop cable is supplied with each HP 3081A for connection to the adapter. If you require longer cables, you can select from the following products:

Product#	Description	
HP 92920A	HP 3081A to HP 92922A/92923A data/power cable delivered in 300-meter drums (max. length 60m per terminal).	
HP 92921A	HP 3081A to HP 92922A/92923A special performance data/power cable delivered in 300-meter drums (max. len. 150m per terminal)	
HP 92179H	HP 3081A to HP 92922A/92923A data/power cable. Minimum order 50m (max. len. 150m per terminal)	

SOFTWARE

The HP 260 System Software described below comes automatically with every HP 260 system. If you selected any PCs as workstations, you can order the terminal emulator software (if required). This software enables the PC to function as an HP 260 workstation and/or to transfer files. You can also optionally select HP 260 data communication and office support software.

System Software

The HP 260 System Software, which is standard with every SPU, includes the following:

- BASIC/260, an extended BASIC programming language
- IMAGE/260, a data base management system
- QUERY/260, a data base inquiry system
- REPORT WRITER/260, a report development system
- FORMS/260, an on-line forms development system
- TRACE/260, a program execution trace system
- SORT/260, a system to sort data base information
- MEDIA/260, a system to provide IBM 3741 and HP LIF read/write capability
- GPL/260, a graphics plotting library
- LK 3000, a program to provide an asynchronous link to the HP 3000 (MPE/V-based systems)
- TIO/260, an asynchronous device input/output system
- PERFORM, a system to execute commands without an operator
- TASK, a system to provide communication between tasks and to handle secondary tasks
- DIRECTORY CACHE, a system of storing directory entries in cache memory
- DRIVERS for all supported peripherals
- SYSTEM UTILITIES

- Configure system
- Run-only control
- Cross reference listing
- System test
- Duplicate media
- Text Editor
- File and full volume backup

The Series 40 SPU also comes standard with disc cache.

PC Terminal-Emulator Software

If you selected an HP Portable PLUS PC as a workstation, you will need terminal emulator software to make it function with an HP 260 system. The HP Vectra Family require terminal emulator software only for file transfer capabilities; it will work as a workstation with the terminal emulation software included.

AdvanceLink

If you selected the HP Vectra PC with file-transfer capabilities, or if you would like to connect an IBM PC, PC AT, or PC XT with an HP 260 system you will need the following software. It comes on 5 1/4" media.

Product#	Description	
HP 68333F	AdvanceLink software and documentation set	
HP 68333Q	Right to copy HP 68333F, plus 5 sets of documentation	
HP 68333T	5 sets of documentation (no software)	
HP 68333W	Asian Vectra: Option ZAA: Traditional Chinese version Option ZAB: Korean version Option ZAC: Simplified Chinese version	

REFLECTION I

If you selected an HP Portable PLUS, you will need to order the following software for workstation and file-transfer capabilities. Be sure to specify option 400 with the product number.

Product#	Description	
HP 82863K, Option 400	REFLECTION I software	

NOTE

The information about AdvanceLink and Reflection I is only for reference. Please refer to the relevant PC-software documentation.

Data Communication Software

Purchase of a data communication software package allows use of that product on one HP 260 computer system. Once the package has been purchased (product with the suffix "A"), the right to copy that product can be bought at a reduced charge (product with the suffix "R"). This right to copy allows the product to be copied **once** and used on one additional HP 260 system with no time limit. One copy of the associated product manual(s) is included with each package.

NOTE

With the exception of APD/260, data communication software is available in run-only form **only**; it is not intended to be modified by the user.

APD/260 has an unlimited right to copy.

Each data communication software package requires a 64 Kb partition of user memory.

DSN/RJE and DSN/DS require that a DSN/Intelligent Network Processor be installed. NETWORK/260 requires that an Asynchronous Serial Interface board (HP 45127A) be installed and that at least one **non**-video workstation be connected to the system via an Asynchronous Serial Interface board port.

HP 45209A APD/260

The Asynchronous Program Development/260 software package is intended for use by programmers with strong data communication backgrounds. It combines the features of former TIO-II with the XMODEM protocol.

APD/260 permits an HP 260 to interface to any RS-232-C/V.24 device or system, regardless of the protocol the device or system is using. It also permits the development of programs for interprocess communications between an HP 260 and PCs, based on the industry-standard XMODEM protocol. Additionally, it provides the capability to create programs for X.25 communication. The product is delivered on a tape cartridge.

HP 45123A DSN/RJE

DSN/Remote Job Entry is a program for emulation of an IBM 2780/3780 batch terminal. The emulator allows a variety of input/output devices, including discs and keyboards. Punched card I/O and multi-leaving remote job entry are not supported. The remote processor can be any computer which supports or emulates an IBM 2780/3780. Communication with another IBM 2780/3780 emulator is limited to file transfers. This product is delivered on a tape cartridge unless the following option is selected:

Option#	Description	
041	Software on an 8" floppy disc	
043	Software on a 3.5" microfloppy disc	

Product HP 45123R is the right to copy HP 45123A.

HP 45124A DSN/DS

DSN/Distributed Systems is a program which provides a friendly, interactive link between HP 260 and HP 3000 systems. It allows access to the HP 3000 as a virtual terminal, and additionally offers the capability of transferring data and program files. The HP 260 cannot, however, emulate block mode from the HP 3000. This product is delivered on a tape cartridge unless the following option is selected:

Option#	Description	
041	Software on an 8" floppy disc	
043	Software on a 3.5" microfloppy disc	

Product HP 45124R is the right to copy HP 45124A.

HP 45125A NETWORK/260

NETWORK/260 allows HP 260 systems to communicate with each other, as well as with HP 250 systems. When in virtual workstation mode, a non-video workstation on one system is effectively connected to a remote host system and can run applications, access data bases and files, and use peripherals (anything a local non-video workstation can do). The file transfer utility allows any type of file to be copied from one system to another, including system software, data base, program, and data files. This product is delivered on a tape cartridge unless the following option is selected:

Option#	Description	
041	Software on an 8" floppy disc	
043	Software on a 3.5" microfloppy disc	

Product HP 45125R is the right to copy HP 45125A.

Office Support Software

Purchase of an office support software package allows use of that product on one HP 260 computer system. Once the package has been purchased (product with the suffix "A"), the right to copy that product can be bought at a reduced charge (product with the suffix "R"). This right to copy allows the product to be copied **once** and used on one additional HP 260 system with no time limit. One copy of the associated product manual(s) is included with each package.

NOTE

Office support software is available in run-only form **only**; it is not intended to be modified by the user.

Each office support software package requires a 64 Kb partition of user memory.

DSG/260 and SLIDE/260 packages require that a plotter be connected to the system; TEXT/250 requires a printer.

HP 45150A DSG/260

Decision Support Graphics is an interactive application for the creation of charts and graphs. Line charts, pie charts, bar charts, deviation charts, and scattergrams are supported. This product is delivered on a tape cartridge unless the following option is selected:

Option#	Description	
041	Software on an 8" floppy disc	
043	Software on a 3.5" microfloppy disc	

Product HP 45150R is the right to copy HP 45150A.

HP 45160A TEXT/250

TEXT/250 is an interactive text processing system for creating, modifying, and formatting documents. It is delivered on a tape cartridge unless the following option is selected:

Option#	Description	
041	Software on an 8" floppy disc	
043	Software on a 3.5" microfloppy disc	

Product HP 45160R is the right to copy HP 45160A.

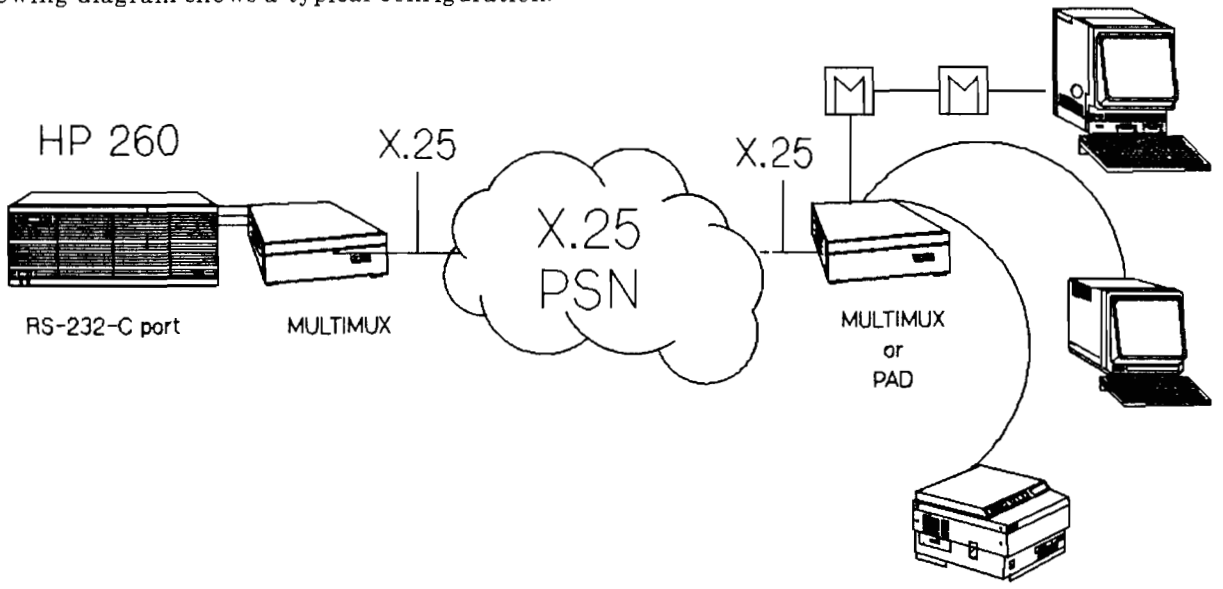
HP 45170A SLIDE/260

SLIDE/260 is a graphics package for creating high quality textual presentation materials. A wide variety of character types and enhancements are supported: the proportionally-spaced Roman and stick character sets can be enhanced with boldface, italics, and underlining, while the uniformly-spaced Europlot, English Gothic, and hardware character sets can be underlined. Character size, color, and position on the page can be specified. SLIDE/260 is delivered on a tape cartridge unless the following option is selected:

Option#	Description	
041	Software on an 8" floppy disc	
043	Software on a 3.5" microfloppy disc	

CONSIDER A MULTIMUX

The MULTIMUX acts as a statistical multiplexer in an HP 260 system configuration. A statistical multiplexer (stat mux) combines multiple data paths into one physical path (comprising logically discrete data streams) and, conversely, separates the combined streams back into individual data paths. The following diagram shows a typical configuration:



If you do not need to access X.25 Packet Switching Networks (PSNs) with your HP 260 system, skip this chapter.

NOTE

One MULTIMUX is **required** on the HP 260 side of the above-pictured configuration. Any PAD (Packet Assembly/Disassembly) facility can be on the workstation/PC side of the configuration.

Communication **must** be initiated from the workstation, although file transfers can go in either direction (to or from the HP 260).

Option 123 must be ordered.

The MULTIMUX supports a **maximum** of 16 ASI devices.

If you wish to access X.25 PSNs via an HP 260 system, specify the following product and option:

HP 2334A Option 123	MULTIMUX statistical multiplexer with four-port modem control card	
	Option 015: 230V, 50Hz operation	
	Option 100: Initial configuration by an HP Applications Engineer. This option is **highly recommended**	
HP 40261A	Additional 40-port modem control card. Up to 3 of these cards can be installed in one HP 2334A	

One five-meter network modem cable is included with the HP 2334A. To connect the MULTIMUX to the HP 260, the following cable must be ordered:

HP 45111A	RS-232-C modem cable (4.5m)	

To connect one HP 2334A port to one asynchronous modem or one computer port associated with a printer, the following cable must be ordered:

HP 40220A	5-meter cable	

I/O BOARDS

At least one Asynchronous Serial Interface board is required if you have selected any combination of three or more of the following:

- asynchronous workstation (HP 700/92 or PC)
- printer using an RS-232-C or RS-422 interface

OR, if you selected one or more of the following:

- plotter
- data entry device
- NETWORK/260 software
- MULTIMUX

An ASI board has three RS-232-C/modem/RS-422 ports and two RS-232-C/RS-422 ports. Each port can be configured independently. The ASI board also has programmable baud rate features.

If you selected one or more video workstations, your system requires a Video MUX interface (HP 45128A).

If you selected any DSN software packages, your system requires a DSN/Intelligent Network Processor (HP 45129A).

NOTE

A **maximum** of 20 ports can be configured on the HP 260, controlled by up to 15 users or tasks.

A **maximum** of two ASI boards (providing five ports each) can be installed in an HP 260 system. Additionally, two CPU-integrated RS-232-C ports are standard with each HP 260 SPU.

A **maximum** of two Video MUX interfaces (providing four ports each) can be installed in an HP 260 system.

A **maximum** of one DSN/INP can be installed in an HP 260 system.

Asynchronous Serial Interface Boards

If you require an ASI board, specify the following product number:

HP 45127A	ASI board with 3 RS-232-C/modem ports and 2 RS-232-C/RS-422 ports	

Video MUX Interface

If you require a Video MUX interface for video workstations, specify the following product:

HP 45128A	Video MUX interface with 4 video workstation ports	

Intelligent Network Processor

If you require a DSN/INP for synchronous data communication using DSN/RJE or DSN/DS software, specify the following product number:

HP 45129A	DSN/INP providing an RS-232-C/V.24 synchronous port and an RS-366/V.25	

MEMORY

The HP 260 can use a maximum of 32 memory partitions of 64 Kb each. Four of the memory partitions are used by the system for holding and running the operating system and managing the multi-user functionality of the IMAGE/260 Data Base Management System. Fifteen memory partitions are available for primary tasks. The remainder of system memory can be used by secondary tasks, DROMs or disc-caching on the Series 40.

NOTE

For each running task, one 64 Kb partition of user memory is required.

256 Kb of memory is required by the SPU for the operating system and system software.

Both HP 260 SPUs ship with 512 Kb of memory as standard on the CPU board. The HP 260 Series 40 SPU ships with an additional 512 Kb memory board already installed.

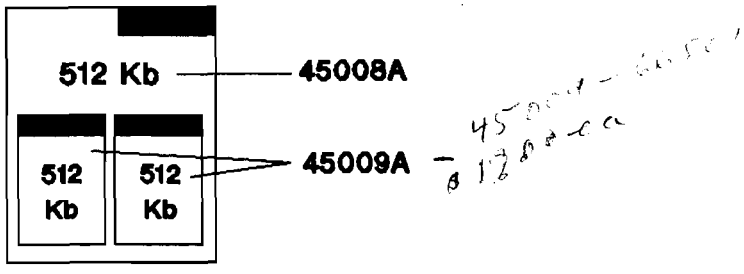
A **maximum** of one memory board and two modules can be installed per system (in addition to the 512 Kb on the CPU board), for a total of 2 Mb of system memory.

The amount of user memory may be reduced depending on the DROMs required by the individual application. To accommodate all DROMs, two 64KB partitions are required.

Add-on Memory Boards

Product#	Description	
HP 45008A	First add-on memory board of 512 Kb (for Series 30 only). Series 40 already contains this board.	
HP 45009A	512 Kb add-on memory module (HP 450008A must already be installed. A maximum of 2 can be installed in any HP 260 system.	

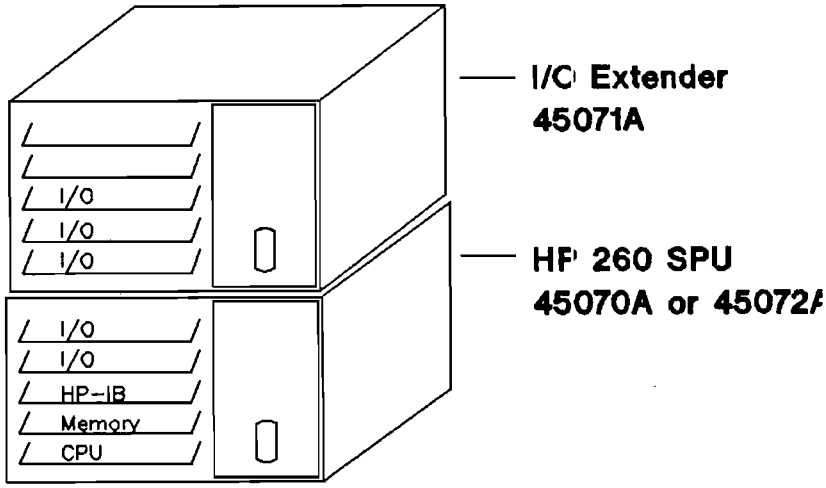
The memory board and two modules will all fit into one SPU slot, as two HP 45009A memory modules fit on top of one HP 45008A memory board. This is shown in the following diagram:



Maximum Add-On Memory = 1.5 Mb

THE I/O EXTENDER

The SPU has five board slots. Slot 1 is for the CPU board. Slot 2 is for add-on memory. Slot 3 is for the HP-IB board. The remaining two slots are for I/O boards (ASI, Video MUX, or INP).



If the number of I/O boards is greater than the number of SPU slots you have available, you will need to order the I/O Extender:

HP 45071A	I/O extender providing 5 additional I/O board slots. In a maximum configuration only 3 can be filled. 100-240V operation, U.S./Canadian power cord, HP installation	

Powercord override options for HP 45071A

Option#	Description	
900	U.K. power cord	
901	Australian/New Zealand power cord	
902	European power cord	
904	U.S./Canadian power cord, 250V	
906	Swiss power cord	
912	Danish power cord	
917	South African power cord	

MINI-RACK CABINET

Two types of cabinets are available to house mass storage devices and the SPU. The HP 92211R and HP 45065/66A cabinets have the same dimensions. The HP 45065/66A are lighter in weight, easier to install, and eligible for Purchase Agreement Discounts. The HP 92211R is part of HP's Design Plus furniture line and can be ordered with optional drawer units from DMK.

A cabinet can hold mass storage and backup devices and the SPU. Any mass-storage/backup device described earlier will fit into a cabinet. Compare your mass storage/backup device selection(s) with the following:

Size A	Size B
HP 7946A	HP 7957B
	HP 7958B
	HP 9144A
	HP 9153C

Including the SPU, a cabinet can house the following combinations of mass storage/backup devices:

- up to two size A devices
- up to three size B devices
- one size A disc and one size B device

If you have an SPU with the optional I/O Extender attached , a cabinet can additionally house:

- one size A device
- up to two size B devices

NOTE

The manual *Installing Your HP 260* includes installation instructions for installing an HP 260 system in the HP 45065/45066A cabinets **only**.

Cabinet

Depending on your power requirements and whether you qualify for Purchase Agreement Discounts, consider one of the following cabinets and accessories:

Product#	Description	
HP 92211R	Mini-rack cabinet	
HP 92211S	Rail kit for HP 92211R	
HP 92211T	Filler panel kit for HP 92211R	
HP 45065A	Light-weight mini-rack cabinet with 120V power tap, including rails and filler panels, and U.S./Canadian power cord	
HP 45066A	Light-weight mini-rack cabinet with 240V power tap, including rails and U.S./Canadian power cord	

Computer Museum

The following power cord override options are available for the HP 45066A cabinet:

Option#	Description	
900	U.K power cord	
901	Australian/New Zealand power cord	
904	U.S./Canadian power cord, 250V	
906	Swiss power cord	
912	Danish power cord	
917	South African power cord	

CONSIDER NON-HP INSTALLATION

System installation by Hewlett-Packard is standard with each HP 260 system. The system **can**, however, be installed by an HP 260 VASS (Value Added System Supplier) or customer. However, Hewlett-Packard does not recommend that customers install their systems themselves unless they are skilled technicians. The manual *Installing Your HP 260* is standard with each system.

If the following components are going to be used on an HP 260 system, installation must be done by Hewlett-Packard:

- I/O Extender
- Printer with HPIB interface
- Multimux

NOTE

Regardless of whether HP or customer installation is selected, the VASS or customer should receive the manual *Preparing for Your HP 260* from the HP 260 Sales Representative at the time an order is placed. The manual is part number 45261-90003 from DMK.

System Installation by Hewlett-Packard

As part of the system installation service offered by Hewlett-Packard, the HP Customer Engineer performs the following tasks for the HP products:

- supervise the unpacking and positioning of the equipment
- inventory the shipment against the packing list
- assemble and interconnect the devices
- check primary power line voltage and connect line power to the devices
- perform turn-on procedures and make any electronic or mechanical adjustments required
- execute standard diagnostic programs and tests
- instruct customer personnel on daily care, start-up/shutdown, and backup
- install the operating system (this task may be performed by an Application Engineer)

Non-HP Installation

Non-HP installation can be selected for any HP 260 system, **except** when an I/O extender, a printer with an HPIB interface or Multimux has been ordered, by specifying the SPU option.
See the beginning of Section 2.

HARDWARE SUPPORT

Various levels of support are available for the HP 260 SPU and its supported peripherals. The following pages describe these hardware support levels in more detail. Each hardware support plan is customized for the customer's specific devices.

Hardware Support Services

Standard Monthly Maintenance Charge (SMMC) and Basic Monthly Maintenance Charge (BMMC) are available for the SPU and peripherals. It is recommended that primary system peripherals (such as the principal workstation, system disc and printer) be included with the SPU under one of these levels of support:

SMMC — Standard Monthly Maintenance Charge provides on-site* response to service requests placed between 8:00 a.m. and 5:00 p.m., Monday through Friday, within four hours.

BMMC — Basic Monthly Maintenance Charge provides next-day on-site* response to service requests placed between 8:00 a.m. and 5:00 p.m., Monday through Friday.

Product Monthly Maintenance Charge (PMMC) and Field Repair Center Monthly Maintenance Charge (FMMC) offer less support than SMMC or BMMC for a lower price. If several peripherals are connected to an HP 260 system, hardware support savings can be achieved by placing all of the peripherals under one of these support services (as available):

PMMC — Product Monthly Maintenance Charge provides next-day, on-site* response to service requests placed between 8:00 a.m. and 5:00 p.m., Monday through Friday.

FMMC — Field Repair Center Monthly Maintenance Charge provides service at HP Field Repair Centers.

NOTE

PMMC and FMMC apply to certain peripherals **only**; not to the HP 260 SPU. The SPU can receive hardware support only under SMMC or BMMC.

* On-site response depends on the distance from the customer site to the nearest HP Service Office.

Hardware Support-Service Availability for Peripherals

The following table shows which levels of support are available for peripherals supported by the HP 260 system.

DEVICE	SMMC	BMMC	PMMC	FMMC
Mass Storage Devices				
HP 7946A	•	•	•	•
HP 9153C	•	•	•	•
HP 7957B	•	•	•	•
HP 7958B	•	•	•	•
Workstations				
HP 45263D	•	•		
HP 700/92	•	•	•	•

*Availability to be announced

**For information on PC support, consult PC-specific information

Hardware Support Service Availability for Peripherals

DEVICE	SMMC	BMMC	PMMC	FMMC
Printers				
HP 2225D			•	•
HP 2227A / 2228A			•	•
HP 2563B	•	•		
HP 2603A	•	•	•	•
HP 2932A / 2934A	•	•	•	•
HP 33440A	•		•	•
Plotters				
HP 7440A			•	•
HP 7475A	•	•	•	•
HP 7550A	•	•	•	•
Data-Entry Devices				
HP 92915A	•	•	•	•
HP 92916A	•	•	•	•
HP 39800A	•	•	•	•
HP 3081A	•	•	•	•
HP 92922A	•	•	•	•
HP 92923A	•	•	•	•

SOFTWARE SUPPORT

There are several levels of software support available for the operating system, office support software, and data communication software. In order to properly select software support services, it is necessary to:

1. Determine the **base software product number** (five digits and one letter) which corresponds to the software you wish to include under support service
2. Determine the **level of software support** (one letter) you require
3. Determine the **media option** (two digits) you require
4. Add the proper **local language option** (three digits), if applicable

The support product number will look like this:

HP _____+____-____
(1) (2)(3) (4)

The following parts of this step will lead you through the process described above.

Base Software Product Numbers

The product numbers listed below correspond to the base software packages. These are the packages you can have covered by software support, as long as the specified package **has already been purchased:**

Product#	Description	
HP 45230F	HP 260 operating-system and system software (B.09.00)	
HP 45123A	DSN/RJE software package	
HP 45124A	DSN/DS software package	
HP 45125A	NETWORK/260 software package	
HP 45209A	ADP/260 software package	
HP 99086C	Data communication software category, includes DSN/RJE, DSN/DS, and NETWORK/260 software packages	
HP 45150A	DSG/260 software package	
HP 45160A	TEXT/250 software package	
HP 45170A	SLIDE/260 software package	
HP 99083C	Data management (office support) software category, includes DSG/260, TEXT/250 and SLIDE/260 software packages	

Levels of Software Support

There are three basic levels of software support available, although not all levels of support are available for all software products.

AMS	Account Management Support: -includes support materials, telephone support and local support	
RCS	Response Center Support: -includes support materials and telephone support	
SMS	Software Materials Subscription: -includes support materials	

Services available for the various levels of support are detailed in the following table:

SERVICE	AMS	RCS	SMS
Account-assigned AE/CSR	yes	no	no
Support Management Reviews*	yes	no	no
Software Release Planning**	yes	no	no
Product Usage Assistance & Problem Solving Assistance			
Access to Response Center	yes	yes	no
On-site AE/CSR assistance	yes	no	no
Software problem reporting	yes	yes	no
Software patches and workarounds	yes	yes	no
Support Materials			
Software updates	yes	yes	yes
Firmware updates	yes	yes	yes
Software Status Bulletin (SSB)	yes	yes	yes
Manual updates	yes	yes	yes
Optional, Chargeable Services			
Additional Response Center caller	yes	yes	no
Coverage for multiple systems	yes	yes	yes
Custom support plan	yes	no	no

* Support Management Reviews usually occur twice a year and typically last three hours at the customer's site.

** The Software Release Planning sessions occur each time there is a major software release at an HP office. These sessions are for several customers at the same time (usually four) and last approximately two hours.

The table below shows which services are recommended for the various types of HP 260 customers.

TYPE OF CUSTOMER	AMS	RCS	Additional System Coverage	Custom Support Plan
End User				
Single System Site		•		
Multiple Independent System Site	•		•	
Network Site	•		•	
VASS	•			•
VASS Customer			•	

The following letter-codes denote the levels of support available for the operating system and system software (HP 45230B):

T	Account Management Support
H	Response Center Support
V	Additional system AMS or RCS coverage (at the level of support chosen for the first system)
S	Software Materials Subscription
W	Extended Materials Subscription
Q	Manual Update Service
N	Software Notification Service
P	Additional Response Center Caller

For the individual **data communication** and **office support software packages**, the following levels of support are available **only**:

S	Software Materials Subscription
W	Extended Materials Subscription

For the **data communication** and **data management software categories**, the following levels of support are available **only**:

C	Extends the level of support purchased on the operating system to all of the software products in that particular category
Q	Manual Update Service
V	Additional System Coverage

Software-Support Media Options

Three media options are available to accommodate any HP 260-supported mass storage device for all levels of support **except** Software Notification Service (N) and Additional Response Center Caller (P):

00	No option (to be used, for example, with the Manual Update Service)
22	Cartridge tape
41	8" floppy disc
45	3.5" microfloppy disc

Local Language Options

The following local language options are available for all levels of **operating system support** (base software product HP 45230F), **except** Software Notification Service (N) and Additional Response Center Caller (P); U.S. English

Option#	Description	
252	French	
253	German	
254	U.K. English	
255	Swedish	
256	Spanish	
257	Italian	
258	Katakana	
500	Danish	
501	Flemish	
502	Finnish	

TRAINING COURSES AND CONSULTING

Training courses and a consulting service are available under the following product numbers:

Product#	Description	
HP 45103A	HP 260 Comprehensive Introduction Course: 5 days at selected HP Training Centers - 1 student	
HP 45103X	HP 260 Comprehensive Introduction Course: 5 days at customer's site - 10 students Option 001: Add one student to HP 45103X	
HP 51414A	Consulting from an HP AE -charged per hour on a time and material basis	

ADDING TO OR UPGRADING AN INSTALLED HP 260 SYSTEM

SECTION 3

All products can be ordered for an installed HP 260 Series 30 or Series 40 system in exactly the same manner as a new system.
To add products to an installed system, refer to the appropriate part of Section 2

UPGRADING AN HP 260 SERIES 30 TO A SERIES 40

To upgrade a Series 30 to a high-performance Series 40, with disc caching, the following kit must be ordered. Additional memory and/or I/O boards must be ordered separately (see Section 2).

Product#	Description	
HP 45072AH	Series 30 to Series 40 upgrade kit -includes new CPU board and Series 40 nameplate	

NOTE

Additional 512 Kbyte have to be ordered to upgrade to 1 Mbyte of memory.

ADDING TO OR UPGRADING AN HP 45261D

SECTION 4

This section describes the products unique to HP 260 systems based on the HP 45261D SPU.

HP 260 PLUS UPGRADE

This performance upgrade kit for the HP 45261D SPU includes:

- a new CPU board with a faster processor, 1 Mb of RAM memory, disc caching, and an integrated memory management unit
- Latest Operating System Software which supports up to 15 concurrent users, PC integration, a stand-alone tape, and new peripherals
- user documentation updates
- new "HP 260 PLUS" nameplate

NOTE

No CPU-integrated RS-232-C ports are available with the HP 260 PLUS upgrade.

All peripherals supported by the HP 45261D are supported by the performance upgrade kit. (See Appendix F.)

Product#	Description	
HP 45261AH	HP 45261D performance upgrade kit	

The OS included in the performance upgrade kit comes standard on a 16 Mb tape cartridge. If you would like the OS on a different media, select one of the following options:

Option#	Description	
041	OS on 8" media	
045	OS on 3.5" media	

User documentation updates for the HP 260 PLUS upgrade kit come standard in English. If you require local-language manuals, select one of the following local-language options:

Option#	Description	
252	French user documentation	
253	German user documentation	
256	Spanish user documentation	
257	Italian user documentation	

OPERATING SYSTEM UPGRADE

The Operating System Upgrade includes support for up to 15 concurrent users, PC integration, a stand-alone tape, and new peripherals. If you wish to upgrade to the latest Operating System Software without the HP 260 PLUS upgrade, order the following product number.

Product#	Description	
HP 45265F	Operating-System Upgrade B.09 on 16 Mb tape-cartridge	

If you would like the OS upgrade delivered on a different media, select one of the following options:

Option#	Description	
041	OS upgrade on 8" media	
045	OS upgrade on 3.5" media	

User documentation updates for the B.09 Operating System upgrade come standard in English. If you require local-language manuals, select one of the following local-language options:

Option#	Description	
252	French user documentation	
253	German user documentation	
256	Spanish user documentation	
257	Italian user documentation	

NOTE

Operating System B.09 or later requires 256 Kb of memory.

MEMORY

When ordering additional memory boards, keep in mind that a maximum of two memory boards can be installed in an HP 45261D SPU. Memory boards supported on the Series 30 and Series 40 are **not** supported for the HP 45261D. If you need additional memory for an HP 45261D, you can choose from the following products:

Product#	Description	
HP 45006A	256 Kb memory-board which provides four 64 Kb user-memory partitions	
HP 45007A	512 Kb memory-board which provides eight 64 Kb user-memory partitions	

If additional memory boards are ordered for an HP 45261D, an extra charge for HP installation service will be added to the price of the additional equipment.

NOTE

Keep in mind that the HP 260 PLUS upgrade provides an additional 1 Mb of memory.

I/O BOARDS

When ordering additional I/O boards, keep in mind that:

- a maximum of two ASI boards (providing five ports each) can be installed in an SPU
- a maximum of two HP-HIL/video interfaces (providing four ports each) can be installed if no DSN/INP is installed. If a DSN/INP is installed, only one HP-HIL/video interface can be installed due to power supply limitations

I/O boards supported on the Series 30 and Series 40 are **not** supported for the HP 45261D. If you require additional I/O boards for an HP 45261D, select from the following products:

Product#	Description	
HP 45120D	Asynchronous Serial Interface board with 5 RS-232-C/RS-422 ports	
HP 45120D Option 001	ASI board with 3 RS-232-C/Current Loop ports and two RS-232-C/RS-422 ports (this option is to HP 45120D)	
HP 45122D	DSN/INP providing an RS-232-C/V.24 synchronous port and an RS-366/V.25 auto call port	
HP 45126D	HP-HIL/video interface with 4 video workstation ports	

If additional I/O boards are ordered for an HP 45261D, an extra charge for HP installation service will be added to the price of the additional equipment.

NOTE

Additional memory boards, ASI boards, DSN/INPs, and HP-HIL/video interfaces **cannot** be installed by the customer.

PERIPHERALS

Most peripherals supported by a Series 30 or Series 40 are also supported by the HP 45261D. Such peripherals can be ordered as described in Section 2.

Products not supported by the HP 45261D are:

- HP 92916A bar code reader for HP 45263D video workstations and HP 150 II (HP TOUCHSCREEN) and Vectra PCs
- HP 150A/B PC as a *workstation*; it is supported as a *terminal*
- HP Portable PLUS PC
- HP 150 II PC as a *terminal*; it is supported as a *workstation*
- HP Vectra PC as a *terminal*; it is supported as a *workstation*
- HP 7909A mass storage device
- HP 9153B mass storage device
- HP 9154B mass storage device

NOTE

A **workstation** is a terminal that is completely controlled by the Operating System. It has a full memory partition and programs can be developed on it.

A **terminal** is a "dumb" RS-232-C device controlled by a program written with TIO. Program development is not possible on a terminal.

ADDING TO OR UPGRADING AN HP 250 SYSTEM

SECTION 5

This section describes the products unique to HP 250 systems.

HP 250 PLUS UPGRADE

This performance upgrade kit for the HP 45260A HP 250 SPU includes:

- a new CPU board with a faster processor, one Mb of RAM memory, disc caching, and an integrated memory management unit
- Latest Operating System software which supports up to 15 concurrent users, PC integration, a stand-alone tape, and new peripherals
- user documentation updates
- new "HP 250 PLUS" nameplate

NOTE

The HP 250 PLUS upgrade kit is **not** available for HP 45251A or HP 45251B HP 250 SPUs.

No CPU-integrated RS-232-C ports are available with the HP 250 PLUS upgrade.

All peripherals supported by HP 250 systems are supported by the performance upgrade kit.

Product#	Description	
HP 45261AH	HP 250 system-performance upgrade kit	

The OS included in the performance upgrade kit comes standard on a 16 Mb tape cartridge. If you would like the OS on a different media, select one of the following options:

Option#	Description	
041	OS on 8" media	
045	OS on 3.5" media	

User documentation updates for the HP 250 PLUS upgrade kit come standard in English. If you require local-language manuals, select one of the following local-language options:

Option#	Description	
252	French user documentation	
253	German user documentation	
256	Spanish user documentation	
257	Italian user documentation	

OPERATING SYSTEM UPGRADE

The Operating System Upgrade includes support for up to 15 concurrent users, PC integration, a stand-alone tape, and new peripherals. If you wish to upgrade to the latest Operating System Software without the HP 250 PLUS upgrade, order the following product number.

Product#	Description	
HP 45265F	Operating-System Upgrade B.09 on 16 Mb tape-cartridge	

If you would like the OS upgrade delivered on a different media, select one of the following options:

Option#	Description	
041	OS upgrade on 8" media	
045	OS upgrade on 3.5" media	

User documentation updates for the B.09 Operating System upgrade come standard in English. If you require local-language manuals, select one of the following local-language options:

Option#	Description	
252	French user documentation	
253	German user documentation	
256	Spanish user documentation	
257	Italian user documentation	

NOTE

Operating System B.09 or later requires 256 Kb of memory.

CPU LOADER-ROM KIT

If you do not order the performance upgrade kit but wish to load the Operating System from an HP 794X, HP 795X, HP 913X, HP 9144A, or HP 915X disc or backup device, you need to order the CPU loader ROM kit.

The CPU ROMs are integrated circuits that contain special software which functions as an operating system until the actual operating system and system software are loaded. The ROM code tells the system to perform self-tests and to load the operating system if everything is working properly.

With the latest CPU ROMs, the operating system can be loaded from all supported discs, including the built-in 5, 10, and 15 Mb Winchester discs. The CPU ROMs are necessary for an HP 250 system only if you wish to load the operating system from the above-listed products.

If you need the CPU loader ROM kit, order the following product number:

Product#	Description	
HP 45276A	CPU Loader-ROM kit	

NOTE

Only Operating Systems B.07 or later support the HP 794X and HP 913X discs. Only Operating Systems B.08 or later support the HP 795X, HP 9144A, and HP 915X devices.

If you use HP 9145A as a load device you need a loader-ROM with a DC >2836.

EXTERNAL HP-IB DEVICE SUPPORT

HP 250 Models 20, 25 and 26 can be upgraded to add support for external HP-IB devices via the Peripheral Interface Channel (PIC). There is an additional charge for installation by Hewlett-Packard; external PIC capability **cannot** be installed by the customer. If the HP 250 system is covered by a hardware maintenance contract, installation of the HP-IB cabling and the new peripherals is provided by HP at no additional charge.

The following cable must be ordered:

8120-4429	HPIB cable (1m), internal to the processor	

I/O BOARDS

I/O boards for HP 250 systems are different than those available for HP 260 systems. The following paragraphs describe the products available for the following HP 250 SPUs: HP 45251B and HP 45260A.

NOTE

The HP 45251B SPU (HP 250 Model 35) can support **either** two Asynchronous Serial Interface boards **or** one ASI board and one DSN/Intelligent Network Processor.

The HP 45260A SPU (HP 250 Models 20, 25, 26, 30, 40 and 50) can support a **maximum** of two Asynchronous Serial Interface boards and one DSN/Intelligent Network Processor.

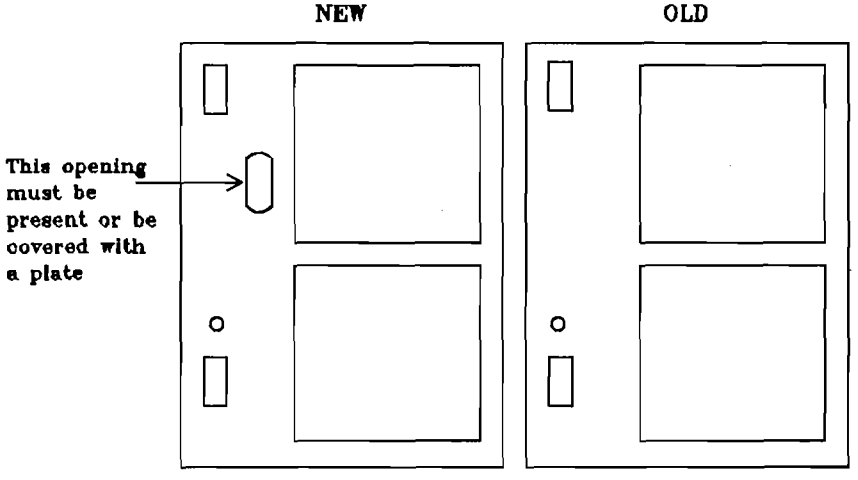
Video MUX/HP-HIL interfaces **are not** supported on HP 250 systems.

Asynchronous Serial Interface Boards

The following ASI board is available for HP 45251B SPUs:

HP 45120A — Asynchronous Serial Interface board providing five RS-232-C/V.24 ports, valid for the HP 45251B SPU (HP 250 Model 35) only.

For HP 45260A SPUs, it is first necessary to determine if the system requires a back panel upgrade. The HP 250 Model 26 does not require a back panel upgrade; all other models should be checked against the following diagram:



If no opening is present, a back panel upgrade is required.

The following ASI board and options can be ordered for the HP 45260A SPU:

Product#	Description	
HP 45120B	Asynchronous Serial Interface board providing five RS-232-C/V.24 ports, valid for the 45260A SPU only	

Option#	Description	
001	Include external DSN/INP module and cable. This is required if a DSN/INP (HP 45122B) is installed and a second SAI board is needed	
002	Include external DSN/INP module, cable and system back panel upgrade. This is required if: a DSN/INP (HP 45122B) is installed, a second ASI board is needed, a back panel upgrade is necessary.	

Intelligent Network Processor

A DSN/INP can be ordered for any HP 250 system, but it is necessary to determine if a back panel upgrade is required (as shown previously).

Product#	Description	
HP 45122B	DSN/Intelligent Network Processor, providing one RS-232-C/V.24/V.28 synchronous port and an RS-366/V.25 auto call unit port	

The following options to HP 45122B are valid **only** for the HP 45260A SPU.

Option#	Description	
001	Include external DSN/INP module. This is required if two ASI boards are already installed.	
002	Include external DSN/INP module and system back panel upgrade. This is required if two ASI boards are already installed and a back panel upgrade is needed.	

MEMORY

Due to power supply limitations, a 512 Kb memory board must be installed if more than four memory boards and more than 640 Kb of total memory are required. A maximum of 896 Kb of total memory is usable in any configuration. The following memory boards are available for the HP 250:

Product#	Description	
HP 45006A	256Kb memory board	
HP 45007A	512Kb memory board	

NOTE

The HP 45006A and HP 45007A memory boards can only be used if the HP 250 system is running Operating System **B.04 or later.**

At lease one HP 45007A memory board is **required** for HP 250 systems with more than six workstations.

The HP 250 PLUS upgrade provides an additional one Mb of memory.

CONFIGURING HP-IB DEVICES

APPENDIX
A

APPROVALS

When configuring HP-IB devices for an HP 260 system, the following points should be kept in mind:

- A maximum of four mass storage and/or tape devices and 10 volumes are supported. See Section 2.
- A maximum of two HP-IB printers are supported.
- The HP-IB cable between the SPU and a mass storage/backup device and between mass storage/backup devices should be no longer than one meter. HP-IB cable between a mass storage/backup device and printer or between printers should be no longer than two meters.
- A daisy-chain configuration should be used for all HP-IB peripherals.
- All HP-IB devices should draw power from the same power outlet.
- All cable connections should occur at the device (i.e., no cables should be connected simply to extend the effective length of the cable).

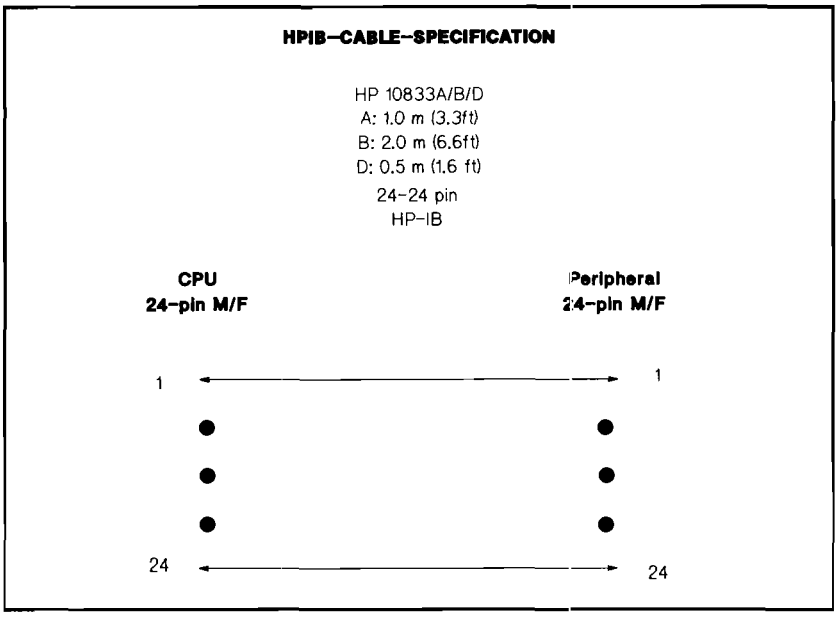
CABLE INFORMATION

APPENDIX
B

Following is a list of recommended cable products for the HP 260:

HP-IB Cables

HP 10833A	1-meter HP-IB cable (male/male)
HP 10833B	2-meter HP-IB cable (male/male)
HP 10833D	0. 5-meter HP-IB cable (male/male)

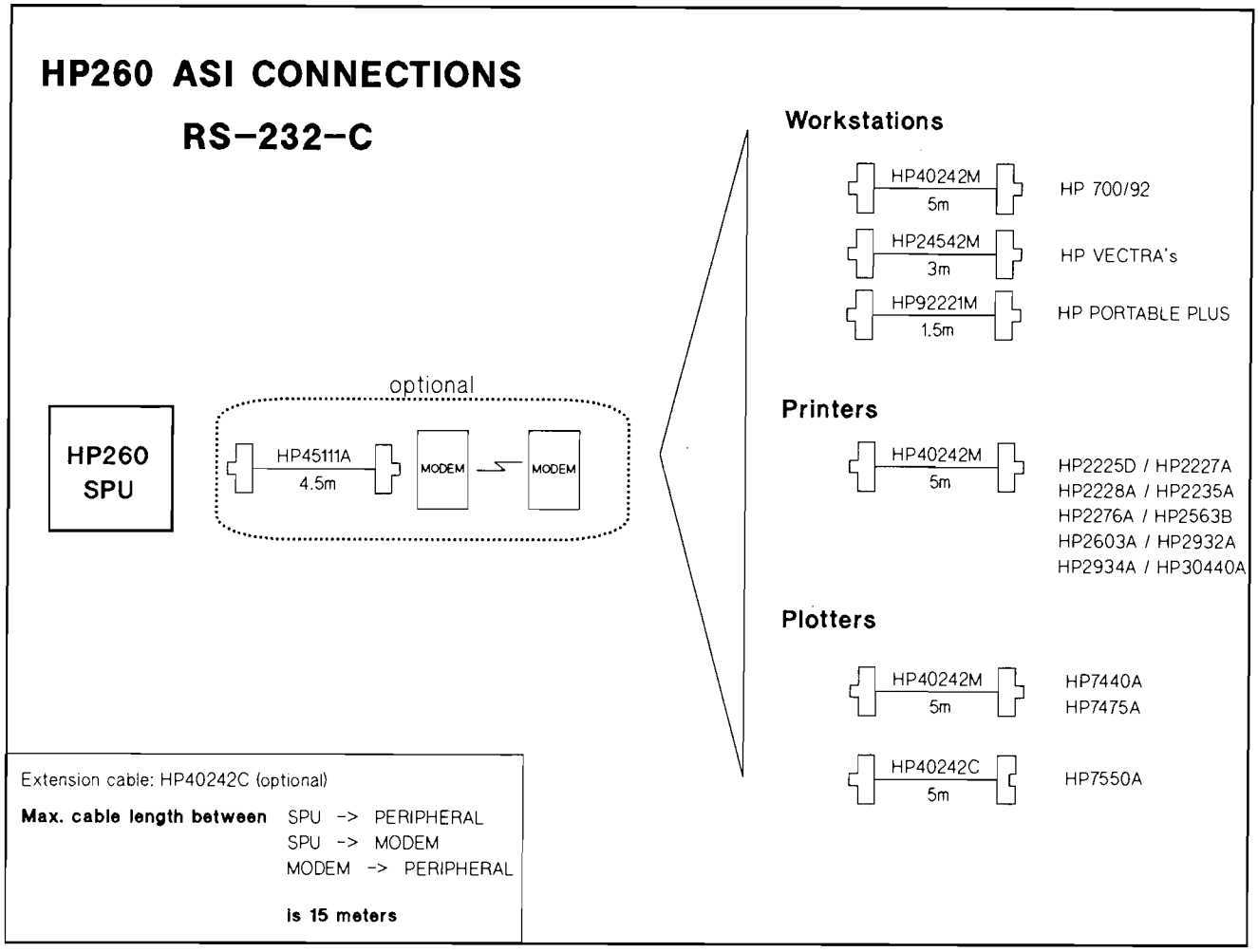


DSN/INP Cables

HP 45115A	10-meter modem or auto call unit connection cable (male/male)
HP 45116A	10-meter DSN/INP to HP 3000 INP cable for Series 37/39/42/48/68 (male/female)
HP 30221A	10-meter DSN/INP cable to HP 3000 INP Series 37/39/42/48/68 modem cable (male/PC edge connector)
HP 30222A	10-meter DSN/INP cable to HP 3000 INP Series III modem cable (male/PC edge connector)

RS-232-C Cables

HP 24542M	3 meter Vectra RS-232-C cable
HP 40242M	5-meter HP 2392A RS-232-C modem cable
HP 45111A	4.5-meter modem cable (male/male)
HP 92218D	5-meter HP 92922A/92923A to system cable (male/male)
HP 92221M	1.5-meter Portable PLUS RS-232-C cable



Current Loop Cables

HP 45112A	1.5-meter modem cable (male/unterminated)
HP 92179H	HP 3081A to HP 92922A/92923A data/power cable (unterminated)
HP 92920A	HP 3081A to HP 92922A/92923A data/power cable (unterminated)
HP 92921A	HP 3081A to HP 92922A/92923A special performance data/power cable (unterminated)

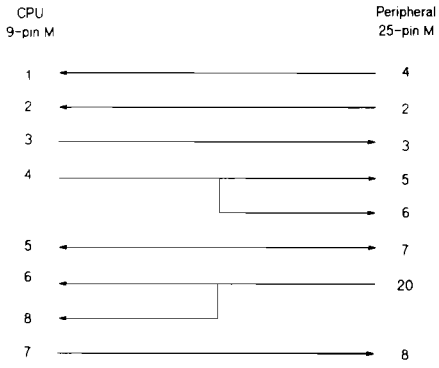
Video Cables

45262-61605	5-meter workstation cable (special/special)
45262-61610	10-meter workstation cable (special/special)
45262-61620	20-meter workstation cable (special/special)
45262-61630	30-meter workstation cable (special/special)
45262-61650	50-meter workstation cable (special/special)
HP 92232A	HP-HIL workstation cable (unterminated) on a 275-meter reel; should be assembled using HP 92232B connector kit
HP 92232B	Connector kit for workstation cable with assembly instructions
HP 92232C	HP-HIL workstation cable (unterminated) on a 100-meter reel; should be assembled using HP 92232B connector kit

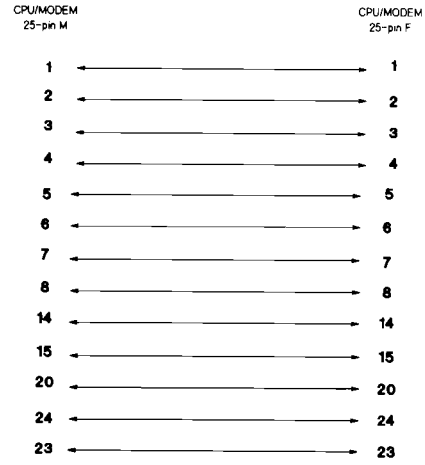
RS-422 Cable

HP 45114A	1.5-meter ASI to RS-422 cable (male/unterminated)

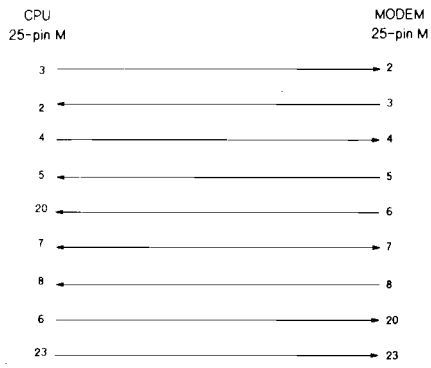
HP 24542M
3.0m (9.9 ft)
9-25 pin
RS-232-C



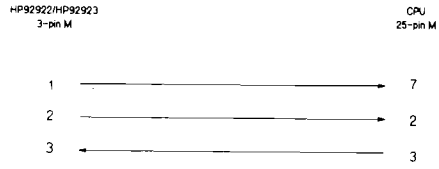
HP 40242 C
5.0 m
25 - 25 pin
RS 232C



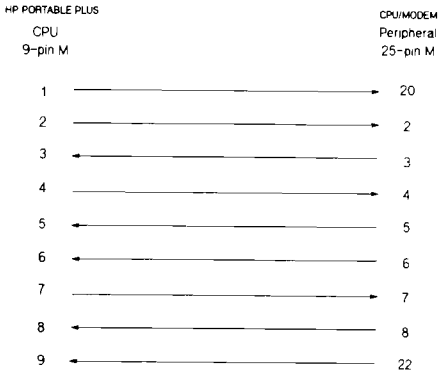
HP45111A
4.5 m
25 - 25 pin
RS-232-C Modem



HP 92218D
5.0 m (16.7 ft)
3-25 pin
RS-232-C



HP 92221M
1.5 m (5.0 ft)
9-25 pin
RS-232-C



DOCUMENTATION

APPENDIX C

The following documentation is available for HP 260 systems.

Included With	Manual	Language*	Part Number
System Order**	Preparing for your HP 260	English	45070-90003
		French	45070-90203
		German	45070-90303
		Spanish	45070-90603
		Italian	45070-90703
Standard Manual Set (HP 45070A HP 45072A Bundles)	Unpacking Instructions	English	45070-90002
		French	45070-90202
		German	45070-90302
		Spanish	45070-90602
		Italian	45070-90702
	Installing your HP 260	English	45070-90006
		French	45070-90026
		German	45070-90036
		Spanish	45070-90066
		Italian	45070-90076
	Operating and Managing your HP 260	English	45261-90001
	HP 260 Utilities	English	45261-90061
	Query Operator's Guide	English	45261-90005

* The manuals are supplied in the language specified by the SFU local language option if manuals are available in that language. If manuals are not available in the specified local language, English manuals will be supplied.

** Provided by HP 260 Sales Representative

Included With	Manual	Language*	Part Number
Programming Manual Kit 45261-97901 (includes binders)	TIO Programming	English	45120-90006
	IMAGE Programming	English	45261-90020
	QUERY Programming	English	45261-90021
	REPORT WRITER Programming	English	45261-90022
	FORMS Programming	English	45261-90023
	SORT Programming	English	45261-90024
	MEDIA Programming	English	45261-90025
	BASIC Programming	English	45261-90051
	Syntax Reference	English	45261-90063
	Graphics Plotting Library Programming	English	45261-90064
HP 45263D	Personal Workstation Assembly Instructions	Multi**	45263-90001
HP 45071A	Installing the HP 260 I/O Extender	English	45071-90006
HP 45072AH	Installing HP 260 Series 30 to Series 40 Upgrade	English	45072-90006
HP 45261AH	Installing the HP 250/260 PLUS Upgrade	English	45261-90070

* The manuals are supplied in the language specified by the SPU local language option if manuals are available in that language. If manuals are not available in the specified local language, English manuals will be supplied.

** English, French, German, Spanish, Italian

Included With	Manual	Language*	Part Number
HP 45209A	APD/260 Programmer's Manual	English	45070-90100
HP 45122D	DSN/INP Reference	English	45122-90010
HP 45123A/R	DSN/RJE User's Manual	English	45123-90000
HP 45124A/R	DSN/DS User's Manual	English	45124-90000
HP 45125A/R	NETWORK User's Manual	English	45125-90001
HP 45150A/R	Decision Support Graphics User's Manual	English	45150-90010
HP 45160A/R	TEXT Self-Teaching Guide TEXT Reference TEXT Pocket Guide	English	45160-90000 45160-90010 45160-90020
HP 45170A/R	SLIDE User's Guide	English	45170-90001

* The manuals are supplied in the language specified by the SPU local language option if the manuals are available in that language. If manuals are not available in the specified local language, English manuals will be supplied.

SALES TOOLS

APPENDIX
D

The following sales tools are available for HP 260 systems.

Literature Piece	Version	Part Number
Management brochure	European (English)	5954-6210
	U.S. (English)	5954-6210D
	Italian	5954-6210IT
	Spanish	5954-6210SP
	Norwegian	5954-6210NO
	Danish	5954-6210DK
	German	5954-6210GE
	Dutch	5954-6210DU
	French	5954-6210FR
	Finnish	5954-6210FI
Direct mail flyer	European (English)	5954-6211
	U.S. (English)	5954-6211D
	Italian	5954-6211IT
	Spanish	5954-6211SP
	Swedish	5954-6211SW
	Norwegian	5954-6211NO
	German	5954-6211GE
	French	5954-6211FR
	Finnish	5954-6211FI

Literature Piece	Version	Part Number
System Overview	English	5954-6213
	Italian	5954-6213IT
	Danish	5954-6213DK
	Swedish	5954-6213SW
	German	5954-6213GE
	Finnish	5954-6213FI
NETWORK data sheet	English	5954-6227
QUERY data sheet	English	5954-6228
TEXT data sheet	English	5954-6229
DSG data sheet	English	5954-6230
REPORT WRITER data sheet	English	5954-6231
GPL data sheet	English	5954-6232
DSN data sheet	English	5954-6233
IMAGE data sheet	English	5954-6234
SLIDE data sheet	English	5954-6235
HP 45263D workstation data sheet	English	5954-6237
SPU data sheet	English	5954-6218
HP 260/250 PLUS data sheet	English	5954-6219
APD/260 data sheet	English	5954-6220
Poster 1	Universal	5954-6221
Poster 2	English	5954-6222
Sales Training Manual	English	5954-6224
Price Guide (US)	English	5954-6225D
Price Guide (FBP)	English	5954-6226

APPROVALS AND WARRANTY

APPENDIX
E

APPROVALS

The HP 260 computer system has the following safety approvals:

- UL 478, electronic data processing units and systems
- CSA C22.2 No. 154, data processing equipment
- IEC 380/VDE 0806, international standard for safety of electrically energized office machines
- IEC 435, safety of data processing equipment

The HP 260 has the following Radio Frequency Interference approvals:

- for Germany, FTZ license number C-032/81
- for the U.S., this equipment has been tested and complies with the requirements in part 15 of FCC rules for a class A computing device

The HP 260 has data communication approvals in the following countries:*

- Federal Republic of Germany
- United Kingdom
- Australia
- Belgium
- Finland
- Sweden

---

*The United States does not require regulatory approval.

WARRANTY

The following paragraphs are abridged descriptions of the HP 260 system warranty coverage. Complete warranty terms are described in *Computer Products Warranty and Installation Guide*, part number 5953-3010.

Hardware Products

Hewlett-Packard warrants its hardware against defects in material and workmanship. During the warranty period, normally 90 days following installation, Hewlett-Packard will, at its option, repair or replace hardware which proves to be defective.

Software and Firmware Products

Hewlett-Packard warrants that its software and firmware designated by Hewlett-Packard for use with a Central Processing Unit will execute its programming instructions when properly installed on that CPU. Hewlett-Packard does not warrant that the operation of the CPU, or software, or firmware, will be uninterrupted or error free.

Limitation of Warranty

The foregoing warranties shall not apply to defects resulting from:

- improper or inadequate maintenance by the buyer
- buyer-supplied software or interfacing
- unauthorized modification or misuse
- operation outside of the environment specifications of the product
- improper site preparation and maintenance

PERIPHERAL SUPPORT MATRIX B.09

APPENDIX F

Operating System Revision B.09 adds support for many new peripheral devices to the line of HP250 and HP260 computer systems.

Not all peripherals recognized by O.S. B.09 are supported by every HP250 or HP260 SPU. The following matrix lists those peripherals which can be added as "supported" peripherals to an installed HP250 or HP260 system.

Peripherals which are added in an unsupported configuration may be unplugged during system testing in the event of a hardware maintenance call.

If a peripheral is listed as "unsupported", it has not been tested with the references SPU. Non-HP peripheral products are not supported by HP, nor will HP be held responsible for any malfunctions caused by Non-HP peripherals.

NOTE

The HP250 SPUs HP4525XA and HP45251B have been discontinued and will reach the end-of-support soon. peripheral devices marked with * are discontinued but are in their support life period.

Refer to the notes of each device family for special considerations. This is the OS9 peripherals support matrix for the supported HP250 and HP260 SPU. It indicates only if a peripheral is supported under OS9 and the major configuration restrictions or requirements. Other HW and/or SW interface, configuration or use restrictions may be applicable. The relevant documentation should be consulted for details.

Highlighted lines are the new peripherals introduced with OS9.

The following abbreviations are used:

```
250   =  HP250 SAM
250S  =  HP250 SAMSON
250T  =  HP250 SAMSON with TURBO upgrade
260   =  HP260 DELILA
260T  =  HP260 DELILA with TURBO upgrade
260P  =  HP260 PANDA

-     =  not supported
Y     =  supported
L     =  supported and usable as OS boot device with original CPU ROM

V     =  video interface
S     =  serial interface (RS232 and/or RS422 and/or Curr.Loop)
H     =  HPIB interface
S/H   =  serial and HPIB interface
```

WORKSTATIONS

WORKSTATIONS	I/O	250	250S	250T	260	260T	260P
2622D	S	Y	Y	Y	Y	Y	Y
2649D	S	Y	Y	Y	-	-	-
45262D	V	-	-	-	Y	Y	-
45263D	V	-	-	-	Y	Y	Y
2392A	S	Y	Y	Y	Y	Y	Y
700/92	S	-	Y	Y	Y	Y	Y
150A	S	-	Y	Y	Y	Y	Y
150B	S	-	Y	Y	Y	Y	Y
150II	S	-	Y	Y	Y	Y	Y
PORTABLE PLUS	S	-	Y	Y	Y	Y	Y
VECTRA	S	-	Y	Y	Y	Y	Y
VECTRA CS	S	-	-	-	Y	Y	Y
VECTRA ES	S	-	-	-	Y	Y	Y
VECTRA RS	S	-	-	-	Y	Y	Y
VECTRA CS PORTABLE	S	-	-	-	Y	Y	Y

Notes:

2622D - on 260P the following restrictions apply:
- > not on integrated ports
- > not as principal workstation
- > no Current-Loop or RS-422 interface
- > no Finnish/Flemish/Swiss-German or Swiss-Roman keyboard language
- > violate ergonomic standards

150A - file transfer requires AdvanceLink A.03.02 or later
150B " " "
150II " " "

PORTABLE PLUS - requires Reflection I

VECTRA - requires AdvanceLink A.05.04 or later
VECTRA CS - file transfer requires AdvanceLink B.01.00 or later
VECTRA ES " " "
VECTRA RS " " "
VECTRA CS PORTABLE " " "

Supported local workstation printers are:

WORKSTATION	I/O	LOCAL PRINTERS
2622D	-	Integral
2649D	H	2631A, 2631B
2392A	S	2225D, 2603A, 2686A, 2932A, 2934A
150A	S	" " " " "
150B	S	" " " " "
150II	S	" " " " "
VECTRA	S	" " " " "
700/72	S	2225D, 2227A, 2228A, 2235A, 2276A, 33440A
VECTRA CS	S	" " " " " "
VECTRA ES	S	" " " " " "
VECTRA RS	S	" " " " " "
VECTRA CS PORTABLE	S	" " " " " "

MASS STORAGE

MASS STORAGE	I/O	250	250S	250T	260	260T	260P
INT.5/10/15MB	H	-	L	Y	-	-	-
7902A	H	L	-	-	-	-	-
7906H	H	Y	L	L	-	-	-
7906M	H	Y	L	L	-	-	-
7906S	H	Y	L	L	-	-	-
7908P	H	Y	L	L	L	L	-
7910K	H	L	-	-	-	-	-
7911P	H	Y	L	L	L	L	-
7912P	H	Y	L	L	L	L	L
7941A	H	Y	Y	Y	L	L	L
7942A	H	Y	Y	Y	L	L	L
7945A	H	Y	Y	Y	L	L	L
7946A	H	Y	Y	Y	L	L	L
7957A	H	Y	Y	Y	L	L	L
7957B	H	-	Y	Y	L	L	L
7958A	H	Y	Y	Y	L	L	L
7958B	H	-	Y	Y	L	L	L
9895A	H	-	-	-	Y	Y	-
9895K	H	L	L	L	-	-	-
9133D	H	Y	Y	Y	L	L	-
9133H	H	Y	Y	Y	L	L	L
9133L	H	Y	Y	Y	L	L	L
9134D	H	Y	Y	Y	L	L	-
9134H	H	Y	Y	Y	L	L	L
9134L	H	Y	Y	Y	L	L	L
9134XV	H	Y	Y	Y	-	-	-
9153B	H	-	-	-	-	-	L
9153C	H	-	-	-	-	-	L
9154B	H	-	-	-	-	-	L
9144A	H	Y	Y	Y	L	L	L
9145A*	H	-	-	-	-	(Y)	L**

Notes:

7906S - max. one as slave of a 7906M master

7958B - capacity downsized from 150MB to 132MB for compatibility with 7958A.

* to be announced
** requires loader-ROM with CD >2836

SYSTEM PRINTERS

SYSTEM PRINTERS	I/O	250	250S	250T	260	260T	260P
2225D Thinkjet	S	Y	Y	Y	Y	Y	Y
2227A QuietJet+	S	Y	Y	Y	Y	Y	Y
2228A QuietJet	S	Y	Y	Y	Y	Y	Y
2235A RuggedWriter	S	-	-	-	-	Y	Y
2276A DeskJet	S	-	-	-	-	-	Y
2563A	S/H	Y	Y	Y	Y	Y	Y
2563B	S/H	Y	Y	Y	Y	Y	Y
2601A	S	Y	Y	Y	Y	Y	-
2602A	S	Y	Y	Y	Y	Y	-
2603A	S	Y	Y	Y	Y	Y	Y
2608A	H	Y	Y	Y	-	-	-
2631A	S/H	Y	Y	Y	-	-	-
2631B	S/H	Y	Y	Y	-	-	-
2686A LaserJet(+)	S	Y	Y	Y	Y	Y	Y
2686D LaserJet500+	S	Y	Y	Y	Y	Y	Y
2687A	S	Y	Y	Y	Y	Y	-
2932A	S	Y	Y	Y	Y	Y	Y
2933A	S/H	Y	Y	Y	Y	Y	-
2934A	S/H	Y	Y	Y	Y	Y	Y
33440A LaserJetII	S	Y	Y	Y	Y	Y	Y
82905B	S	Y	Y	Y	Y	Y	-
9871A	H	Y	-	-	-	-	-

PLOTTERS

PLOTTERS	I/O	250	250S	250T	260	260T	260P
7220A	S	Y	Y	Y	-	-	-
7220C	S	Y	Y	Y	-	-	-
7220S	S	Y	Y	Y	-	-	-
7220T	S	Y	Y	Y	-	-	-
7221A	S	-	Y	Y	-	-	-
7221C	S	-	Y	Y	-	-	-
7221S	S	-	Y	Y	-	-	-
7221T	S	-	Y	Y	-	-	-
7225A	S	-	Y	Y	-	-	-
7225B	S	-	Y	Y	-	-	-
7440A	S	Y	Y	Y	Y	Y	Y
7470A	S	-	-	-	Y	Y	-
7475A	S	-	-	-	Y	Y	Y
7550A	S	-	-	-	Y	Y	Y

TERMINAL DEVICES

TERMINAL DEVICES	I/O	250	250S	250T	260	260T	260P
262x	S	Y	Y	Y	Y	Y	-
264x	S	Y	Y	Y	-	-	-
239x	S	Y	Y	Y	Y	Y	Y
700/92	S	-	Y	Y	Y	Y	Y
150A	S	Y	Y	Y	Y	Y	Y
150B	S	Y	Y	Y	Y	Y	Y
150 II	S	-	-	-	-	-	Y
PORTABLE PLUS	S	-	-	-	-	-	Y
VECTRA	S	-	-	-	-	-	Y
VECTRA CS	S	-	-	-	Y	Y	Y
VECTRA ES	S	-	-	-	Y	Y	Y
VECTRA RS	S	-	-	-	Y	Y	Y
VECTRA CS PORTABLE	S	-	-	-	Y	Y	Y
3075A	S	Y	Y	Y	Y	Y	-
3076A	S	Y	Y	Y	Y	Y	-
3077A	S	Y	Y	Y	Y	Y	-
3081A	S	Y	Y	Y	Y	Y	Y
39800A	S	Y	Y	Y	Y	Y	Y

Notes:

ALL DEVICES - on the 260P not on integrated ports

3081A - require 92922A or 92923A channel adapter

PORTABLE PLUS - requires Reflection I

VECTRA - requires AdvanceLink A.05.04 or later

DATACOM DEVICES

DATACOM DEVICES	I/O	250	250S	250T	260	260T	260P
2334A	S	-	-	-	-	-	Y

PRINTER FUNCTIONALITY FOR HP260

APPENDIX G

SYSTEM PRINTER:

- Connected directly to the SPU (for valid configurations, see the system support matrix).
- Accessible from every task/user
- Standard ASCII characters in the range 32 ... 126 are supported and most national characters are printable (see list below).
- Underline enhancement is supported by the O.S.
- Full functional support of all PRINTER related statements in the O.S.
- Individual printer features can be used with the aid of the 'PRINTER IS ..., TRANSPARENT' option,which allows ALL codes to be sent to the printer (except ENQ/ACK configured printers).
- If the printer is connected via HP-IB to the SPU, additional information like 'printer is down' and 'printer is off-line' is available (except 2563)

LOCAL PRINTER:

- Connected to a workstation (for valid configurations see the list below)
- Accessible from primary tasks only
- The 'PRINTER IS ..., TRANSPARENT' option is also provided. However, some codes are stripped by the workstation (like 0, 5, 127 on the 700/92).
- remaining features are the same as with the system printers.

Characters supported with operating system B.09 and Series 30/40:

```
AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz
1234567890 !"#$%&'()*+,-./:;<=>?@[\]^_'{|}~
£¯°çÑñ¡¿¤f¥§âêôûáéóúàèòùäëöüÅîØÆåíøæÄìÖÜÉïß
```

95 ASCII characters
43 National "

Local printers supported with operating system B.09 on HP 700/92 and HP VECTRA ES/CS/RS:

- LaserJet II
- DeskJet
- ThinkJet
- Rugged Writer 480
- QuietJet
- QuietJet+

CONFIGURATION SUMMARY

APPENDIX
H

Please photocopy these pages and use them to compile all your system selections. It is recommended that you use a separate set for each system order.

When actually placing an order, HP Sales Representatives should refer to the *HP 260 Price Guide*, the HP Price List, and the *Field Order Processing Guidelines* for specific ordering information.

HP260 Configuration Summary I

Base System

HP260/30	HP260/40
HP45070A	HP45072A

Power cable options

--	900	901	902	904	906	912	917

Operating System media option

--	045

Non HP-installation

020

Standard Manual Set Options

--	252	253	256	257

HP260 Configuration Summary II

Mass Storage and Backup Devices

HP7946A	HP7957B	HP7958B	HP9144A

Options (not HP9144A)

---	015	550

Mass Storage and Backup Devices

HP9153C	HP9153CA	HP9153CB	HP9153CG	HP9153CQ	HP9153CU	HP9153CY

Options

020	021	040	041

HP260 Configuration Summary III

Video Workstations

HP45263D

Cable Options

--	001	002	003	004

Keyboard Options

--	252	253	254	255	256	257	258	259	500	501	502	503	504

Operating System media options

--	230	900	901	902	903	904	906	912	917

Asynchronous Workstation HP700/42

C1001A	C1001G	C1001W

Keyboard Options

ABA	ABB	ABC	ABD	ABE	ABF	ABP	ABQ	ABR	ABS	ABU	ABW

ABX	ABY	ABZ	ACC	ACD	ACE	ACG

Cable Numbers

HP40242M	HP45111A	HP40242C

HP260 Configuration Summary II

Mass Storage and Backup Devices

HP7946A	HP7957B	HP7958B	HP9144A

Options (not HP9144A)

---	015	550

Mass Storage and Backup Devices

HP9153C	HP9153CA	HP9153CB	HP9153CG	HP9153CQ	HP9153CU	HP9153CY

Options

020	021	040	041

HP260 Configuration Summary III

Video Workstations

HP45263D

Cable Options

--	001	002	003	004

Keyboard Options

--	252	253	254	255	256	257	258	259	500	501	502	503	504

Operating System media options

--	230	900	901	902	903	904	906	912	917

Asynchronous Workstation HP700/42

C1001A	C1001G	C1001W

Keyboard Options

ABA	ABB	ABC	ABD	ABE	ABF	ABP	ABQ	ABR	ABS	ABU	ABW

ABX	ABY	ABZ	ACC	ACD	ACE	ACG

Cable Numbers

HP40242M	HP45111A	HP40242C

HP260 Configuration Summary IV

Asynchronous Workstation PC HP Vectra

Cable Numbers for Connections

HP24542M	HP45111A	HP40242C

Asynchronous Workstation PC HP Portable Plus

Cable Numbers for Connections

HP92221M	HP45111A	HP40242C

HP260 Configuration Summary V

PRINTER

ThinkJet Printer

HP2225DB	HP2225DK	HP2225DQ	HP2225DU	HP2225DY

QuietJet Plus Printer

HP2227AA	HP2227AB	HP2227AD	HP2227AE	HP2227AF	HP2227AG

HP2227AK	HP2227AP	HP2227AQ	HP2227AU	HP2227AY	HP2227AZ

QuietJet Plus Printer

HP2228AA	HP2228AB	HP2228AD	HP2228AE	HP2228AF	HP2228AG

HP2228AK	HP2228AP	HP2228AQ	HP2228AU	HP2228AY	HP2228AZ

HP260 Configuration Summary VI

RuggedWriter 480 Printer

HP2235A	HP2235B	HP2235C	HP2235D

Options

A	B	J	K	P	U	Y

DeskJet Printer

HP2276AA	HP2276AB	HP2276AG	HP2276AK	HP2276AQ	HP2276AU	HP2276AY

Line Printer

HP2563B

Options

001	002	003	004	005	006	008	009	012

013	015	016	017	049	068	250	510	715

HP260 Configuration Summary VII

Office Printer

HP2603AB	HP2603AG	HP2603AK	HP2603AQ	HP2603AU	HP2603AY

Accessories

HP26010A	HP26030E

Impact Printer

HP2932A	HP2934A	HP2934A Option #46

LaserJet Series II

HP33440AA	HP33440AB	HP33440AD	HP33440AE	HP33440AF

HP33440AP	HP33440AQ	HP33440AU	HP33440AY	HP33440AZ

Printer cables

HP40242M	HP45111A HP40242M	HP40242C

HP260 Configuration Summary VIII

Plotter

HP7440 Color Pro Plotter

HP7440AA	HP7440AB	HP7440AD	HP7440AE	HP7440AF

HP7440AQ	HP7440AU	HP7440AY	HP7440AZ

HP7475

HP7475AA	HP7475AB	HP7475AD	HP7475AF	HP7475AQ

HP7475AU	HP7475AY	HP7475AZ

HP7550 Graphics Plotter

HP7550AA	HP7550AB	HP7550AD	HP7550AE	HP7550AF

HP7550AQ	HP7550AU	HP7550AY	HP7550AZ

Printer cables

HP40242C	HP45111A HP40242C	HP40242M	HP40242M HP45111A

HP260 Configuration Summary IX

Data Entry Devices

HP39800A

Options

001	002	210	222	224	320	400	420	610	910

Cables

HP40242M	HP40242C

HP3081A

Options

004	020	052	053	054	055	056	057

Cables

HP92922A Option 015	HP92923A Option 015	HP92218D	HP92920A	HP92921A	HP92179H

HP260 Configuration Summary X

PC Terminal Emulator Software

HP68333F	HP68333Q	HP68333T	HP68333W Option ZAA Option ZAB Option ZAC	HP82863K Option 400

Data Communication Software

HP45209A	HP45123A	HP45124A	HP45125A

Options

--	041	043

Office Support Software

HP45150A	HP45160A	HP45170A

Options

--	041	043

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