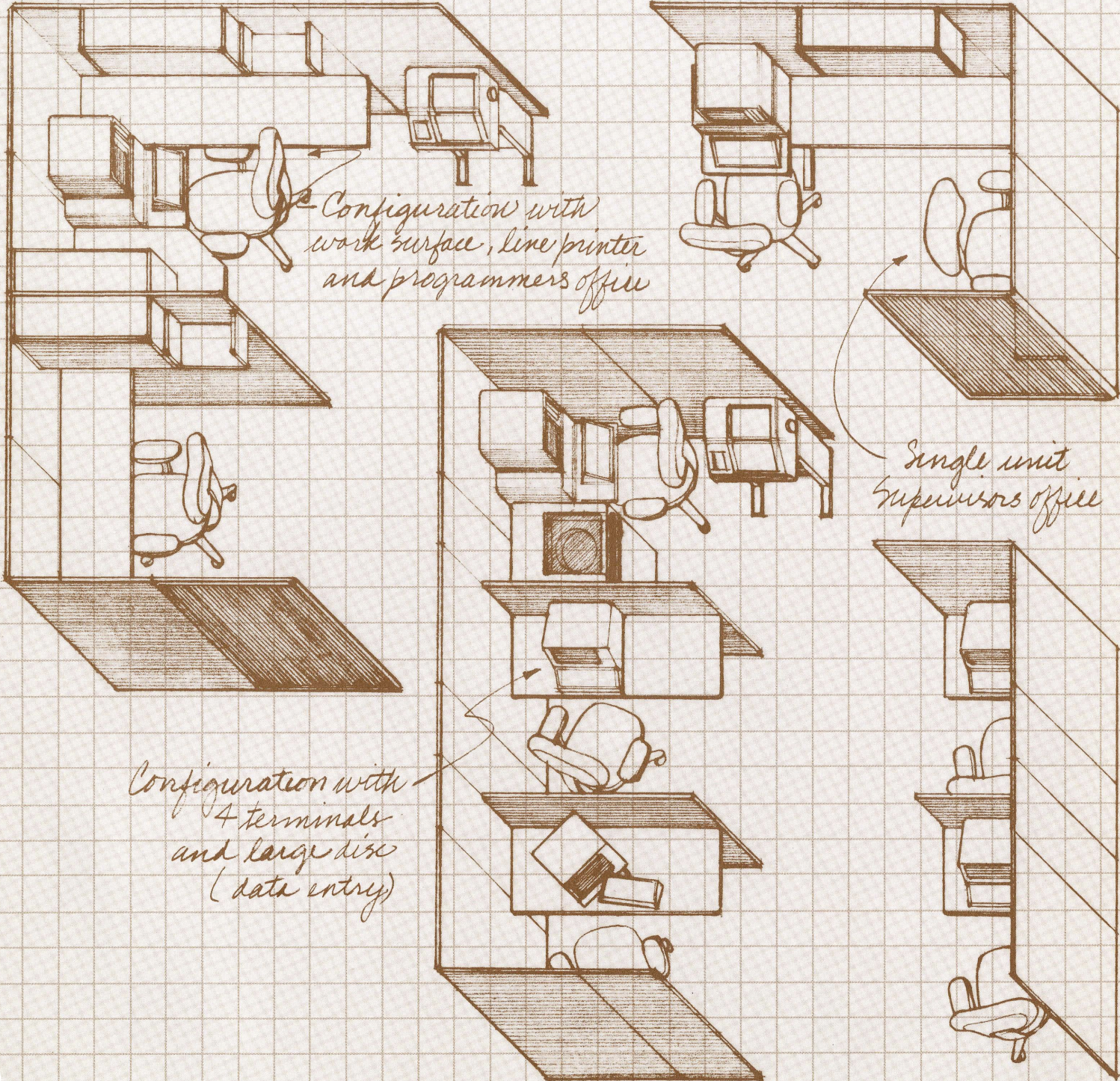


# HP 300 Computer System

HEWLETT  PACKARD

Price/Configuration Guide  
Effective October 1, 1978

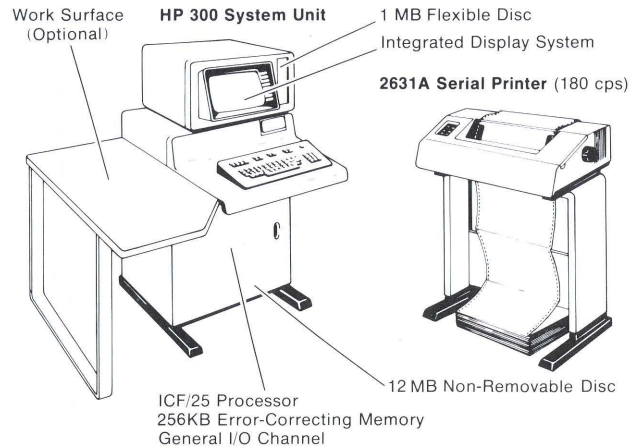








# System Summary



The HP 300 Computer System is a high-capability, low-cost computer system designed for dedicated, on-line business data processing applications:

- **“Large System” Capability.** Powerful operating software and state-of-the-art hardware provide unprecedented capability in a small, integrated system.
- **Sophisticated System Display.** The HP 300 can present many different pieces of information simultaneously on its advanced display, providing unprecedented display capability and simplicity of system operation.
- **Data Management.** A comprehensive file management system and the Image/300 Data Base Management System offer a complete range of data management alternatives.
- **Multiterminal Operation.** The HP 300 supports up to 16 terminals, backed by a variety of applications structures for implementing efficient on-line applications.
- **Interactive Software Development.** Powerful programming tools and a unique on-line programming process simplify and streamline software development.
- **Dependability.** The HP 300 is designed to fit directly into the office environment, providing reliable, worry-free operation backed by a strong, worldwide support organization.
- **Expandability.** The HP 300 has dramatic growth potential in all dimensions with smooth, modular expansion.

## Minimum System

### Hardware

HP 300 Model A	HP 300 System Unit including ICF/25 Processor Integrated Display System (IDS) 256 KB error-correcting memory General Input/Output Channel (GIC) for up to 5 additional devices Integrated 12 Megabyte non-removable disc 1 Megabyte flexible disc
----------------	--

HP 300 Model B

Same as HP 300 Model A, but with external 10+10 Megabyte fixed/removable disc rather than integrated 12 Megabyte non-removable disc

### Software

Amigo/300 Operating System  
HELP (an on-line reference manual)  
Typist (a text editor)  
Sort/Merge  
System Build (an interactive configurator)  
Diagnostic/Utility System

### Optional Products

#### Software

Business Basic/300  
RPG II/300  
Image/300 Data Base Management System

#### Hardware

	Standard	Maximum	
128 KB Memory Modules	2	8	(1024 KBytes)
8-device GIC Channels	1	2	(16 devices)
4-line Asynchronous Data Communication Channels		4	(16 terminals)

### Peripherals

Interactive Display Terminals	16 (in addition to IDS)
50 to 9600 Baud	
180 cps Serial Printer	2
20/50/120 MB Disc Drives	2 (beyond system disc)

### Accessories

Work Surface

# Peripherals at a Glance

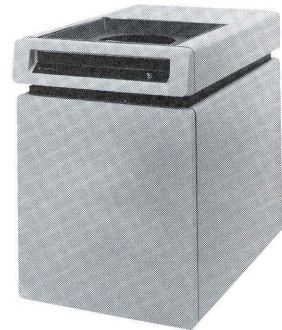


## Printers

### 2631A Serial Printer

The 2631A is a 180 character per second serial dot matrix impact printer.

Printing	7x9 dot matrix, impact Print speed 180 cps (bi-directional) 227/136/68 characters per line in compressed/normal/expanded mode
Character Sets	128-character USASCII including underline and control codes European subset characters (optional)
Forms Handling	8-channel fixed Vertical Forms Control for 11-inch forms Horizontal tabbing (up to 136 positions) Variable pitch, horizontal 5/10/16.7 cpi vertical 6/8 cpi



## Mass Storage

### 7906M 10+10 MB Master Drive 7906S 10+10 MB Add-On Drive

This disc drive has a 10 MB fixed disc and a 10 MB removable cartridge (front loading). The 7906M includes the controller and supports one Add-On Drive on the HP 300. On the HP 300 Model B the 7906M is used as system disc. Mass storage expansion requires a second Master Drive.

### 7920M/7925M 50/120 MB Master Drive 7920S/7925S 50/120 MB Add-On Drive

Both models have top-loading disc packs. The Master Drive includes the controller and supports one Add-On Drive on the HP 300.

## Comparison of 79XX Discs

Type	Total formatted capacity MB	Removable capacity MB	Tracks per surface	Sectors per track	Data surfaces	Avg. seek time ms	Avg. rotational delay ms	Data transfer rate kB/s
7906	19.6	9.8	411	48	2	25	8.33	937.5
7920	50.0	50.0	815	48	5	25	8.33	937.5
7925	120.1	120.1	815	64	9	25	11.1	937.5

## HP 300 Mass Storage Growth Path

	Non-removable Disc 12 MB	7906M 20MB	7906S 20MB	7920M 50MB	7920S 50MB	7925M 120MB	7925S 120MB
HP 300 Model A	12	12 → 32 → 52		62* → 112		132* → 252	
HP 300 Model B		20	20, 40 → 60	70* → 120		140* → 260	

\*These configurations are not recommended, because they are difficult to back up.





## Interactive Display Terminals

The 264X family of Interactive Display Terminals offers a wide range of capabilities to suit on-line interactive data processing requirements. A 24 line by 80 character display and removable keyboard are common to all 264X terminals. Data rates up to 9600 Baud are supported through a standard RS-232 (CCITT V.24) interface.

### 2640B Interactive Display Terminal.

Low-cost terminal for general-purpose use.

### 2645A Display Station.

Powerful general-purpose terminal with optional off-line tape storage.

### 2648A Graphics Terminal.

Powerful general-purpose terminal with additional 720x360 dot raster scan graphics capability and optional off-line tape storage.

### 2647A Intelligent Graphics Terminal.

Powerful general-purpose terminal, user-programmable in BASIC, with 720x360 dot raster scan graphics capability, high-level graphics commands and off-line tape storage.

**Note:** The HP 300 does not offer a graphics software package at this time. However, users will be able to encode all graphics capabilities of the graphics terminals within their programs as well as use these terminals in general-purpose mode.

## Interactive Display Terminal Features

	2640B	2645A	2648A	2647A
<b>Maximum Baud Rate</b>	2400	9600	9600	9600
<b>Maximum Memory</b>	8KB	12KB	8KB	20KB
<b>Block or Character Mode</b>	Standard			
<b>Option Slots supplied</b>	2	7	4	1
<b>Character Set supplied</b>	64— Roman	128— Roman	128— Roman	128— Roman
<b>Lower Case Characters</b>	Optional		Std	Std
<b>Inverse Video</b>	Standard			
<b>User-defined Softkeys</b>	—	8 Std	9 Std	8 Std
<b>2 Tape Cartridge Drives</b>	—	Optional		Std
<b>Underline, Blink, Half-Bright</b>	Optional			
<b>Math Character Set</b>	Optional			
<b>Line Drawing Set</b>	Optional			—
<b>Raster Scan Graphics</b>	—	—	Std	Std

For detailed specifications on peripherals refer to the HP 300 General Information Manual (HP Number 5953-3704).



# HP 300 Configurator and Ordering Guide

## 1 Select HP 300 System

- 31032A HP 300 Model A (12 MB non-removable system disc)
- 31033A HP 300 Model B (10+10 MB fixed/removable system disc)
  - Language Option (401-410)
  - Voltage/Frequency Option (015-019)
  - Power Cord Option (900-906)
  - 31224A Math Character Set
  - 31225A Line Drawing Set
  - 31226A Large Character Set
  - 31227A Roman Extension Character Set
  - 31381A Work Surface

## 2 Select Software and Software Support

	Plan 1 48 mos.CSS	Plan 2 12 mos.CSS
<u>Std Amigo/300 and System Utilities</u>		
<input type="checkbox"/> 31449A Monthly payment for CSS	Order 48	Order 12
<input type="checkbox"/> 31032A-002 Prepaid Purchase Option		1
<input type="checkbox"/> 31442A Business Basic/300	1	1
<input type="checkbox"/> 31449A-001 Monthly payment for CSS	48	12
<input type="checkbox"/> 31442A-002 Prepaid Purchase Option		1
<input type="checkbox"/> 31445A RPG II/300	1	1
<input type="checkbox"/> 31449A-002 Monthly payment for CSS	48	12
<input type="checkbox"/> 31445A-002 Prepaid Purchase Option		1
<input type="checkbox"/> 31424A Image/300	1	1
<input type="checkbox"/> 31449A-003 Monthly payment for CSS	48	12
<input type="checkbox"/> 31424A-002 Prepaid Purchase Option		1

## 3 Select Terminals (up to 16)

- 2640B Interactive Display Terminal
  - Opt 001 Add lower case characters
- 2645A Display Station
  - Opt 007 Add dual tape cartridge
- 2648A Graphics Terminal
  - Opt 007 Add dual tape cartridge
- 2647A Intelligent Graphics Terminal
- Terminal Accessories:
  - 13231A Display enhancements
    - opt 201 Add Math Symbol Set
    - opt 202 Add Line Drawing Set
    - opt 203 Add Large Character Set
  - 13234A Terminal Memory Module (4 KB)

## 4 Select Printers (up to 2)

- 2631A-330 Serial Printer
  - opt 009 Add Extended Roman Character Set
  - 26098A Pedestal for 2631A
  - opt 001 Add casters to pedestal

## 5 Select additional Mass Storage

To help you plan your Mass Storage growth path refer to the chart on page 2. One Master Drive and one Add-On Drive may be added to an HP 300. To allow disc to disc data backup the selection of a Master Drive/Add-On Drive pair is recommended for the 7920 and 7925 models.

- 7906M-100 10+10 MB Master Drive
- 7906S 10+10 MB Add-On Drive
- 7920M-100 50 MB Master Drive
- 7920S 50 MB Add-On Drive
- 7925M-100 120 MB Master Drive
- 7925S 120 MB Add-On Drive

## 6 Select ADCC Channels (up to 2 each ADCC Main and Extender) if you have selected any terminals in (3).

- 31264A ADCC Main (terminals 1-4, 9-12)
- 31265A ADCC Extd (terminals 5-8, 13-16)

**Note:** The number of terminals which can be supported with adequate performance (response time) is a function of the application and the amount of main memory. Your HP Field Engineer will assist you in making this determination.



**7 Select additional memory modules**  
(Two 128KB modules standard, up to 6 additional modules can be added)

Add 1 Module for	384 KB total
2	512
3	650
4	778
5	896
6	1024

\_\_\_ 31204A 128 KB Memory Module

**8 Select additional GIC Channels**  
(1 standard, up to 1 additional)

If you select a 7906M, 7920M or 7925M in 5 a second GIC is necessary

\_\_\_ 31262A GIC Channel  
\_\_\_ Total (6)+(7)+(8) must not exceed 9

**9 Select RS-232 Cables**

If you are ordering any terminals selected in 3, you need

- for terminals connecting directly to an ADCC, one each RS-232 Cable  
\_\_\_ 13232W RS-232 Cable 4.5 m
- for existing terminals with modem cables to be connected directly to an ADCC, one each RS-232 Modem Eliminator Cable  
\_\_\_ 31390A 5 m RS-232 Modem Eliminator Cable
- to extend the distance of an RS-232 connection, RS-232 Extension Cables can be ordered. The total length of an RS-232 connection should not exceed 15 m (50 ft).  
\_\_\_ 31391A 5 m RS-232 Extension Cable  
\_\_\_ 31391B 10 m  
\_\_\_ 31391C 15 m

**10 Select HP-IB Cables**

If you are selecting either printers in 4 or a Master Disc Drive (7906M/20M/25M) in 5, you need one HP-IB Extension Cable per device.

- \_\_\_ 31389A 1 m HP-IB Extension Cable
- \_\_\_ 31389B 2 m
- \_\_\_ 31389C 4 m
- \_\_\_ 31389D 8 m

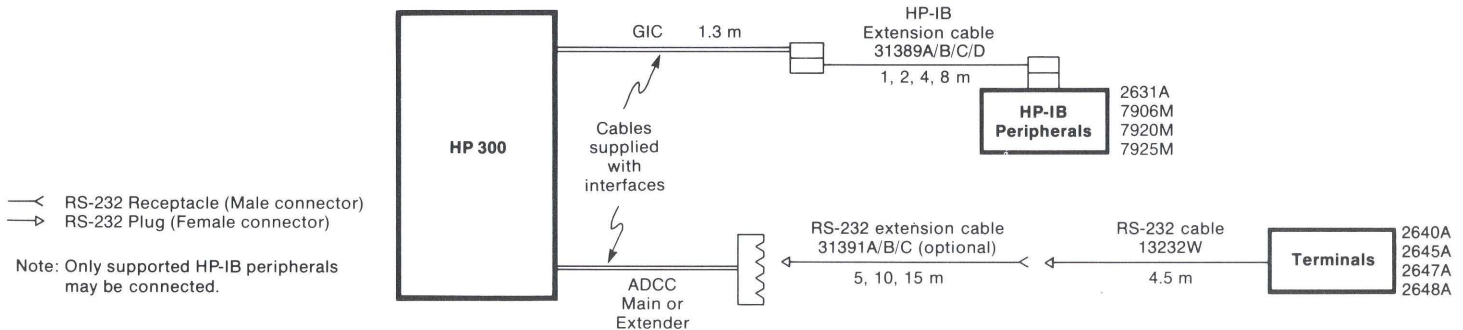
The total additional HP-IB cable length for all peripherals on one GIC Channel must not exceed the lengths shown in the following table.

**Allowable HP-IB Cable Lengths**

Number of External Devices	Standard GIC	Additional GIC
1	9 m	6 m
2	10 m	7 m
3	11 m	8 m
4	12 m	9 m
5	13 m	10 m
6	—	11 m
7	—	12 m
8	—	13 m

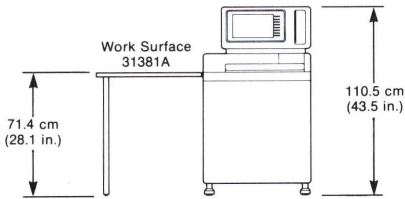
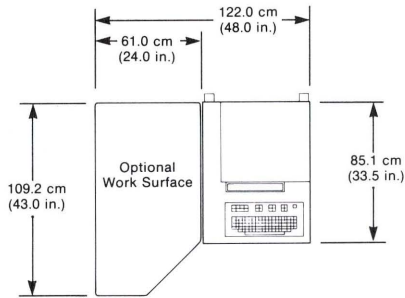
**11 For Consumables and Training Courses refer to the Product List at the end of this publication.**

For assistance in using this configurator refer to the sample configuration following this section. Options shown are either required or recommended. Additional options and prices can be found in the product list. Selections made on this and the following page may be transcribed to the HP 300 Configuration Form foldout in the back of this guide.

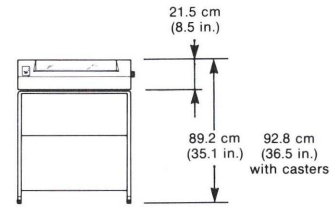
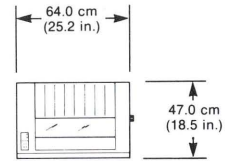




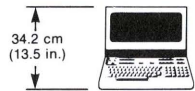
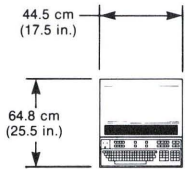
# Site Planning



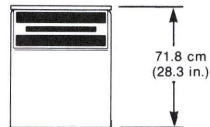
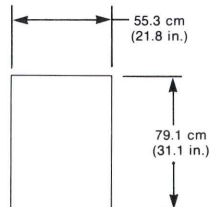
**HP 300 System Unit**



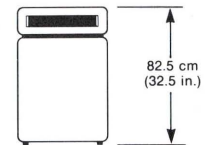
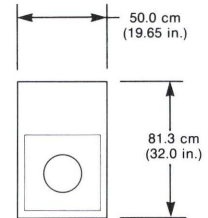
**2631A Serial Printer**



**2640B Interactive  
2645A Display Terminals  
2648A  
2647A**



**7906M/S 20MB Disc Drive**



**7920M/S 50MB Disc Drive  
7925M/S 120MB Disc Drive**



## Electrical Requirements, Heat Load and Weight

Complete the following table to estimate power requirements, heat load and weight. Fill in the appropriate values considering multiple units as applicable.

Product	Current at		Heat Load	Weight	Power Cable Length (US)	Data Cable, Length
	100-120V	220-240V				
HP 300 Mod A System Unit _____ units	10 A	5 A	800 W	118 kg (260 lb)	2.20 m (7 ft)	included, GIC: 1.50 m (5 ft) ADCC: 1.00 m (3 ft)
HP 300 Mod B System Unit and 7906M _____ units	15 A	7.5 A	1350 W	263 kg (580 lb)	2.20 m (7 ft)	included, GIC: 1.50 m (5 ft) ADCC: 1.00 m (3 ft) HP-IB: 2.00 m (6 ft)
2631A Serial Printer _____ units	2.7 A	1.3 A	265 W	23.5 kg (51 lb)	1.80 m (6 ft)	not included, select HP-IB cable 1, 2, 4, 8 m
2640B, 2645A, 2648A, 2647A Interactive Display Terminals _____ units	2.2 A	1.1 A	150 W	22.8 kg (50 lb)	2.20 m (7 ft)	not included, select RS-232 cable 4.50 m (15 ft)
7906M/20M/25M Disc Drive and Controller _____ units	6.8 A	3.4 A	720 W	159 kg (350 lb)	2.20 m (7 ft)	not included, select HP-IB cable 1, 2, 4, 8 m
7906S/20S/25S Add-On Disc Drive _____ units	4.9 A	2.5 A	510 W	143 kg (315 lb)	2.20 m (7 ft)	included, 3.00 m
	Total _____ A 100-120V	_____ A 220-240V	Total _____ W	Total _____ kg or lb		

Total current and total heat load can now be used to determine electrical power and possible air conditioning requirements. For trouble-free operation a dedicated power circuit should be provided for the HP 300 and its peripherals. In extreme power situations additional protective equipment such as an isolation transformer or lightning arrestor may be needed. Air conditioning is only necessary if operating temperature and humidity cannot be otherwise maintained within the limits given below.

Power outlets US, Canada, Japan	NEMA 5-15 (15A)
UK	BS 1363 (13A)
Australia, New Zealand	AS C112 (7.5A)
Europe (except UK and Switzerland)	CEE 7-VII (10/16A)
Switzerland	SEV 1011 (10A)

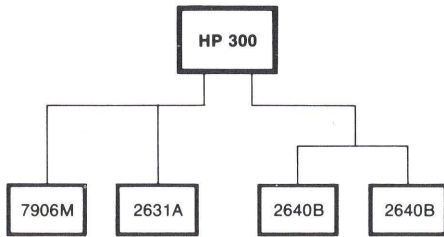
### Environmental Operating Requirements

Line Voltage	100/120/220/240 V <sup>~</sup> +5%, -10% single-phase
Line Frequency	50/60 Hz ±3.5%
Operating Temperature	10°C to 40°C
Operating Humidity	20% to 80% RH (Max Wet Bulb Temperature 26°C)



# Sample Configuration

HP 300 with two 2640B terminals, one 2631A Serial Printer and 20 MB of total disc storage. The system is to be used for forms-oriented data entry employing the Image/300 Data Base Management System. Program development is in Business Basic/300. 384 KB of memory is chosen.



## HP 300 Configurator and Ordering Guide

### 1 Select HP 300 System

- \_\_\_ 31032A HP 300 Model A (12 MB non-removable system disc)
- 31033A HP 300 Model B (10 + 10 MB fixed/removable system disc)
  - \_\_\_ Language Option (401-410)
  - \_\_\_ Voltage/Frequency Option (015-019)
  - \_\_\_ Power Cord Option (900-906)
  - \_\_\_ 31224A Math Character Set
  - 31225A Line Drawing Set
  - \_\_\_ 31226A Large Character Set
  - \_\_\_ 31227A Roman Extension Character Set
  - 31381A Work Surface

### 2 Select Software and Software Support

	Plan 1 48 mos.CSS	Plan 2 12 mos.CSS
Std Amigo/300 and System Utilities		
<input checked="" type="checkbox"/> 31449A Monthly payment for CSS	Order 48	Order 12
___ 31032A-002 Prepaid Purchase Option		
<input checked="" type="checkbox"/> 31442A Business Basic/300	1	1
<input checked="" type="checkbox"/> 31449A-001 Monthly payment for CSS	48	12
___ 31442A-002 Prepaid Purchase Option		
___ 31445A RPG II/300	1	1
___ 31449A-002 Monthly payment for CSS	48	12
___ 31445A-002 Prepaid Purchase Option		
<input checked="" type="checkbox"/> 31424A Image/300	1	1
<input checked="" type="checkbox"/> 31449A-003 Monthly payment for CSS	48	12
___ 31424A-002 Prepaid Purchase Option		

### 3 Select Terminals (up to 16)

- 2640B Interactive Display Terminal
  - \_\_\_ Opt 001 Add lower case characters
- \_\_\_ 2645A Display Station
  - \_\_\_ Opt 007 Add dual tape cartridge
- \_\_\_ 2648A Graphics Terminal
  - \_\_\_ Opt 007 Add dual tape cartridge
- 2647A Intelligent Graphics Terminal
- Terminal Accessories:
  - \_\_\_ 13231A Display enhancements
    - \_\_\_ opt 201 Add Math Symbol Set
    - \_\_\_ opt 202 Add Line Drawing Set
    - \_\_\_ opt 203 Add Large Character Set
  - \_\_\_ 13234A Terminal Memory Module (4 KB)

### 4 Select Printers (up to 2)

- 2631A-330 Serial Printer
  - \_\_\_ opt 009 Add Extended Roman Character Set
  - 26098A Pedestal for 2631A
  - \_\_\_ opt 001 Add casters to pedestal

### 5 Select additional Mass Storage

To help you plan your Mass Storage growth path refer to the chart on page 3. One Master Drive and one Add-On Drive may be added to an HP 300. To allow disc to disc data backup the selection of a Master Drive/Add-On Drive pair is recommended for the 7920 and 7925 models.

- \_\_\_ 7906M-100 10 + 10 MB Master Drive
- \_\_\_ 7906S 10 + 10 MB Add-On Drive
- \_\_\_ 7920M-100 50 MB Master Drive
- \_\_\_ 7920S 50 MB Add-On Drive
- \_\_\_ 7925M-100 120 MB Master Drive
- \_\_\_ 7925S 120 MB Add-On Drive

### 6 Select ADCC Channels (up to 2 each ADCC Main and Extender) if you have selected any terminals in (4).

- 31264A ADCC Main (terminals 1-4, 9-12)
- \_\_\_ 31265A ADCC Extd (terminals 5-8, 13-16)

Note: The number of terminals which can be supported with adequate performance (response time) is a function of the application and the amount of main memory. Your HP Field Engineer will assist you in making this determination.

### 7 Select additional memory modules (Two 128KB modules standard, up to 6 additional modules can be added)

Add 1 Module for	384 KB total
2	512
3	650
4	778
5	896
6	1024

- 31204A 128 KB Memory Module

### 8 Select additional GIC Channels

(1 standard, up to 1 additional)  
If you select a 7906M, 7920M or 7925M in 5 a second GIC is necessary

- \_\_\_ 31262A GIC Channel
- Total (6) - (7) - (8) must not exceed 9

### 9 Select RS-232 Cables

If you are ordering any terminals selected in 3, you need

- a. for terminals connecting directly to an ADCC, one each RS-232 Cable
  - \_\_\_ 31390A 5 m RS-232 Modem Eliminator
  - 13232W RS-232 Cable 4.5 m
- b. for existing terminals with modem cables to be connected directly to an ADCC, one each RS-232 Modem Eliminator
  - \_\_\_ 31391A 5 m RS-232 Extension Cable
  - \_\_\_ 31391B 10 m
  - \_\_\_ 31391C 15 m
- c. to extend the distance of an RS-232 connection, RS-232 Extension Cables can be ordered. The total length of an RS-232 connection should not exceed 15 m (50 ft).

### 10 Select HP-IB Cables

If you are selecting either printers in 4 or a Master Disc Drive (7906M/20M/25M) in 5, you need one HP-IB Extension Cable per device

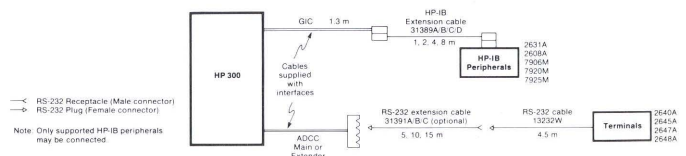
- \_\_\_ 31389A 1 m HP-IB Extension Cable
- \_\_\_ 31389B 2 m
- 31389C 4 m
- \_\_\_ 31389D 8 m

The total additional HP-IB cable length for all peripherals on one GIC Channel must not exceed the lengths shown in the following table.

Number of External Devices	Allowable HP-IB Cable Lengths	
	Standard GIC	Additional GIC
1	9 m	6 m
2	10 m	7 m
3	11 m	8 m
4	12 m	9 m
5	13 m	10 m
6	—	11 m
7	—	12 m
8	—	13 m

### 11 For Consumables and Training Courses refer to the Product List at the end of this publication.

For assistance in using this configurator refer to the sample configuration following this section. Options shown are either required or recommended. Additional options and prices can be found in the product list. Selections made on this and the following page may be transcribed to the HP 300 Configuration Form foldout in the back of this guide.





### Electrical Requirements, Heat Load and Weight

Product	Current at		Heat Load	Weight	Power Cable Length (US)	Data Cable Length
	100-120V	220-240V				
HP 300 Mod A System Unit _____ units	10 A	5 A	800 W	118 kg (260 lb)	2.20 m (7 ft)	included, GIC: 1.50 m (5 ft) ADCC: 1.00 m (3 ft)
HP 300 Mod B System Unit and 7906M _____ units	15	7.5 A	1350 W	263 kg (580 lb)	2.20 m (7 ft)	included, GIC: 1.50 m (5 ft) ADCC: 1.00 m (3 ft) HP-IB: 2.00 m (6 ft)
2631A Serial Printer _____ units	2.7	1.3 A	265 W	23.5 kg (51 lb)	1.80 m (6 ft)	not included, select HP-IB cable 1, 2, 4, 8 m
2640B, 2645A, 2648A, 2647A Interactive Display Terminals _____ units	4.4	1.1 A	150 W	22.8 kg (50 lb)	2.20 m (7 ft)	not included, select RS-232 cable 4.50 m (15 ft)
7906M/20M/25M Disc Drive and Controller _____ units	6.8 A	3.4 A	720 W	159 kg (350 lb)	2.20 m (7 ft)	not included, select HP-IB cable 1, 2, 4, 8 m
7906S/20S/25S Add-On Disc Drive _____ units	4.9 A	2.5 A	510 W	143 kg (315 lb)	2.20 m (7 ft)	included, 3.00 m
	<b>Total 22.1 A</b>		<b>Total 1915 W</b>	<b>Total 332.1 kg</b>		
	100-120V	220-240V		or lb		

### HP 300 Configuration

Qty	Product Number	Option	Description	Total Price	Total Maint. per Mo.
1	31033A		HP 300 System	45,000	225
1	31225A		Line Drawing Set	150	
1	31381A		Work Surface	250	
48	31449A		System Software CSS		80
1	31442A		Business Basic /300	1,500	
48	31449A	001	Basic /300 CSS		40
1	31424A		Image / 300	2,000	
48	31449A	003	Image / 300 CSS		80
2	2640B		Display Terminal	5,200	36
1	2631A	330	Serial Printer	3,375	31
1	26098A		Pedestal for 2631A	275	
1	31264A		ADCC Main	1,600	7
1	31204A		128KB Memory Module	4,000	15
2	13232W		RS-232 Cable	150	
1	31389C		HP-IB Cable 4m	75	
				\$63,575	\$514

#### Configuration steps

1. Select HP 300 System
2. Select software and software support
3. Select Terminals
4. Select Printers
5. Select additional Mass Storage
6. Select ADCC channels (for terminals)
7. Select additional memory modules
8. Select additional GIC channels
9. Select RS-232 cables
10. Select HP-IB cables
11. Select Consumables and Training



# Support

The HP 300 Computer System is backed by a wide variety of customer support services.

## Documentation

### User Manuals

31000-90002*	HP 300 General Information Manual
31000-90001*	HP 300 Owners Manual
31000-90025*	HP 300 Console Operations Manual
31000-90003*	HP 300 Error Messages Manual
31000-90009*	HP 300 Operating System Reference Manual
31000-90010*	HP 300 Typist Reference Manual
31000-90033*	HP 300 Sort/Merge Reference Manual
31442-90001*	Business Basic/300 Reference Manual
31445-90001*	RPG II/300 Reference Manual
31445-90002*	RPG II/300 Sample Programs Manual
31424-90001*	Image/300 Reference Manual
31000-90004	HP 300 Architecture Guide
31000-90005	HP 300 Multiterminal Applications Guide
31000-90008	HP 300 Display System Application Guide
31000-90034	HP 300 System Services Guide
31000-90035	HP 300 Program and Library Operations Guide
31000-90037	HP 300 File and Peripheral Access Guide

\*included in Manual Set shipped with each HP 300 system

## Customer Training

For prices refer to the product list at the end of this publication.

### 31360A HP 300 Software Consulting

This service provides one day of on-site consulting by a Hewlett-Packard System Engineer especially trained on the HP 300 Computer System.

Duration: 1 day

### 31362A HP 300 Introduction for Programmers

This course is designed to give the HP 300 programmer sufficient familiarity with the system and the associated documentation to allow the development of straightforward applications using the major facilities of the operating system, utilities and languages. Extensive hands-on experience is included.

This course is normally taught at HP Field Training Centers, but arrangements can be made to have it taught at a customer site.

Prerequisites: Programming experience in RPG II or BASIC will be helpful.

Duration: 5 days

### 31363A HP 300 System Course

This course teaches the student how to design and develop application programs in Business Basic/300 with full utilization of operating system services. Special emphasis is placed on the development of multiterminal applications and the use of the Integrated Display System. The course includes the equivalent of the HP 300 Introduction for Programmers training and is taught at HP Field Training Centers.

Prerequisites: The student should be a competent BASIC programmer with experience in string, file and formatted I/O operations. Familiarity with block-structured languages such as SPL/3000, ALGOL or PL/I is highly desirable.

Duration: 3 weeks (15 days)

### Site Preparation Assistance and System Installation

The HP 300 has been designed for the office environment and in most cases needs no special provisions for power, noise abatement or air-conditioning. To assist you in preparing for the installation of your HP 300 system you will receive the HP 300 Owners Manual prior to installation. It contains all you need to know to prepare for a successful HP 300 operation. In difficult situations consult your HP Sales Representative for assistance with your site planning.

Upon delivery of all components of your HP 300 system, call your HP Customer Engineer who will install the HP 300 and its peripherals. Start-up assistance will be provided by your HP System Engineer.

For add-on purchases each product's status with respect to installation is specified individually in the product list at the end of this publication.

On-site installation assistance includes travel (in the US, up to 100 miles from the nearest HP service facility. A charge may be made for travel outside of the 100-mile service radius).

### Hardware Maintenance

To keep your HP 300 installation running effectively and guarantee maximum availability to you, HP offers maintenance programs to suit your individual requirements.

Maintenance Plan	Coverage	Days per week
1. Basic Maintenance Plan	8 am- 5 pm ( 9 hrs)	5 or 7
2. Extended Coverage Plan 01	8 am- 9 pm (13 hrs)	5 or 7
3. Extended Coverage Plan 02	8 am-12 pm (16 hrs)	5 or 7
4. Extended Coverage Plan 03	8 am- 8 am (24 hrs)	5 or 7



Typical response time for all plans is 4 hours within a Zone 1 radius (typically 100 miles) from a maintenance office, and 24 hours up to a Zone 2 radius (typically 200 miles) during the time of coverage. For greater distances HP will make the best possible effort to speedily repair the equipment.

The monthly cost of a maintenance contract is based on the type of plan, the service distance and the Basic Monthly Maintenance Charge (BMMC) of the equipment under contract. BMMC charges for each product are shown in the product list at the end of this publication.

Customers who prefer to employ HP Service on a time-and-materials basis may take advantage of HP's per-call service. While it is HP's policy to respond as quickly as possible to all requests, maintenance plan commitments necessarily receive priority.

## Software Support Services

For all standard and optional software products on the HP 300 Hewlett-Packard offers a Comprehensive Software Support Plan including the following services.

- **Software Status Bulletins.** Bimonthly status bulletins provide you with information regarding future software enhancements, current software design errors, and suggested interim programming solutions.
- **Software Updates.** The latest updates and revisions to software purchased for your site will be mailed to you on flexible discs on a regular scheduled basis.
- **Reference Manual Updates.** You are automatically supplied with a set of manual updates pertinent to the software purchased for your site. These updates are mailed directly to your System Manager.
- **Phone-In Consulting.** If you have any questions or discover a software problem, your System Manager may call a trained HP System Engineer via a special telephone "hot line" to discuss your questions and provide advice to resolve any problems.
- **On-Site Software Service.** In instances when a problem cannot be resolved over the telephone, your System Manager can request on-site software assistance. If the problem proves to be associated with HP software, the visit will be covered by the software support plan.
- **Communicator.** As part of software support, you will receive one subscription of the COMMUNICATOR, a publication containing information on software releases, training schedules, lists of available documentation and articles of general interest. The COMMUNICATOR is published 6 times a year.
- **Multiple Site Support.** For users with multiple HP 300 Computer Systems, HP's software support plan is very flexible. You may elect to have one System Manager to support all your sites, a System Manager at each site, or System Managers at designated sites.

Comprehensive Software Support must be ordered with the HP 300 system and for add-on software products for either 12 or 48 months following the 90-day software warranty period. The 12-month plan requires payment of a lump sum at the time of purchase (also called Prepaid Purchase Plan) and the 48-month plan carries a monthly charge. In either case, the software is fully licensed to the customer at the end of the term. Ongoing software support is available on the basis of a Software Subscription Service (SSS) or continued Comprehensive Software Support (CSS).

Example of how to order software and software support

### Plan 1 Initial payment and 48 monthly payments for CSS

Amigo/300 and System Utilities	48 x 31499A
Business Basic/300	1 x 31442A
	48 x 31499A-001
RPG II/300	1 x 31445A
	48 x 31499A-002
Image/300	1 x 31424A
	48 x 31499A-003

### Plan 2 Initial payment (Prepaid Purchase Plan) only

Amigo/300 and System Utilities	1 x 31032A-002
	12 x 31499A
Business Basic/300	1 x 31442A
	1 x 31442A-002
	12 x 31499A-001
RPG II/300	1 x 31445A
	1 x 31445A-002
	12 x 31499A-002
Image/300	1 x 31424A
	1 x 31424A-002
	12 x 31499A-003

## Warranty

### Hardware products

Hewlett-Packard (HP) warrants its hardware against defects in materials and workmanship. During the warranty period of 90 days following installation, HP 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 HP for use with a CPU will execute its programming instructions when properly installed on that CPU. HP does not warrant that the operation of the CPU, or software, or firmware will be uninterrupted or error free. During the warranty period of 90 days following installation, HP will provide its normal Software Support Services at no charge.



### Limitation of warranty

The foregoing warranty shall not apply to defects resulting from:

1. improper or inadequate maintenance of buyer;
2. buyer-supplied software or interfacing;
3. unauthorized modification or misuse;
4. operation outside of the environmental specifications of the product; or
5. improper site preparation and maintenance.

### Multi-Unit Purchase Agreements

Purchase agreements are available to volume end-users and Original Equipment Manufacturers (OEM) who resell HP products after adding value. For such purchases Hewlett-Packard offers discounts based on volume. It is possible to combine various types of HP system and peripheral products under one purchase agreement for maximum discount benefits.

Multi-Unit Purchase Agreements are made for one year and are renewable. Agreement terms and discount schedules are available from your HP Field Engineer.

### Sales Financing

Hewlett-Packard maintains a full customer sales financing capability. Options which may be selected under the plans include early buyout, purchase option, lease renewal, fiscal funding termination provision and equipment upgrade. As with rental plans, the upgrade option permits the addition of new equipment to the original system at any time during the term of the agreement.

Your HP Field Engineer will be glad to develop a sales financing plan for you to match your needs. The following table summarizes the available options.

**Hewlett-Packard Sales Financing Plans**

Type of Lease	Customer	Conditions		Term (months)					
				12	18	24	36	48	60
Prime Government Lease Plan	State and Local Governments	Payment >\$200/mo.	Payment*	8.780		4.603	3.215	2.524	2.112
			Purchase*	10		10	10	7.5	7.5
Custom Computer Lease Plan	Commercial	Amount financed >\$50,000	Payment			4.754	3.369	2.683	2.275
			Purchase			12.5	10	7.5	7.5
Time Payment Plan (Tax Exempt Purchase Agreement)	State and Local Gov't Agencies qualifying for tax exempt interest rates	Payment >\$200/mo.	Finance charge/ Purchase	3.5% Add-on Rate/Year* (6-60 months) own at end of term					
Tax Exempt Lease		Payment >\$200/mo.	Payment	8.633		4.458	3.069	2.375	1.960
			Purchase	\$1.00 at end of term					
Standard Conditional Sales Contract	Commercial	Payment >\$100/mo.	Finance charge/ Purchase	8.25% Add-on Rate/Year (12-48 months) own at end of term					
Prime Conditional Sales Contract	Commercial, Non-Profit and Private Institute	Amount financed >\$15,000	Finance charge/ Purchase	6.25% Add-on Rate/Year (12-48 months) own at end of term					
Standard Lease Plan	Commercial	Amount financed >\$2,500 / Payment >\$200/mo.	Payment	8.979		4.801	3.418	2.733	2.322
			Purchase	possible					
Prime Lease Plan	Commercial	Amount financed >\$15,000	Payment	8.757		4.580	3.192	2.500	2.088
			Purchase	10		10	10	7.5	7.5

\*Payment refers to monthly payment as % of amount financed.  
 Purchase refers to buyout % of amount financed at end of term.  
 Add-on Rate/Year refers to listed % times number of years times amount financed.



# Ordering

To list your product selections you may use the blank HP 300 Configuration form in the back of this publication.

## Product List

Product Number	Opt	Description	Price	Monthly Maint. Charge
<b>System</b>				
31032A		HP 300 Computer System, including HP 300 System Unit with ICF/25 Processor, Integrated Display System, 256 KB of error-correcting memory, General I/O Channel, 12 MB non-removable disc, 1 MB Flexible Disc Drive and Standard Software with Amigo/300 Operating System, System Utilities, HELP, Math Library, System Build, Diagnostics, Typist, Sort/Merge. Includes on-site installation and complete User Manual Set. 110V, 60 Hz operation, US power cord.	35000	160
31033A		Same as 31032A, except 12 MB non-removable system disc is replaced with external 10 + 10 MB 7906M fixed/removable system disc. Includes disc data cable and on-site installation.	45000	225
		System Options applying to both 31032A and 31033A:		
	015	220V, 50 Hz operation		
	016	100V, 50 Hz operation		
	017	240V, 50 Hz operation		
	018	100V, 60 Hz operation		
	019	220V, 60 Hz operation		
	900	U.K. Power Cord		
	901	Australia/New Zealand Power Cord		
	902	Europe (except U.K.) Power Cord		
	906	Swiss Power Cord		
	401	French Option		
	402	German Option		
	403	Italian Option		
	404	British Option		
	405	Dutch Option		
	406	Swedish Option		
	407	Spanish Option		
	408	Finnish Option		
	409	Norwegian Option		
	410	Danish Option		
		} Includes local keyboard, character set and language support		
<b>Optional Hardware (including installation)</b>				
31204A		128 KB Error-correcting Memory Module	4000	15
31262A		General I/O Channel (GIC)	1800	10
31264A		Asynchronous Data Communication Channel (ADCC Main)	1600	7
31265A		Asynchronous Data Communication Channel (ADCC Extender)	1600	7
31224A		Add Mathematical Symbol Set to Integrated Display System	100	
31225A		Add Line Drawing Set to Integrated Display System	150	
31226A		Add Large Character Set to Integrated Display System	150	
31227A		Add Roman Extension Character Set to Integrated Display System	150	
31381A		Work Surface	250	



Product Number	Opt.	Description	Monthly Plan 1 48 mos CSS	Prepaid Plan 2 12 mos CSS	Software Subscription Service (SSS)
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### Software and Software Support

Product Number	Opt.	Description	Initial	Monthly	Initial	Monthly (after term)
31499A		Monthly charge for Amigo/300 and System Utilities		80	960	
	001	Monthly charge for Business Basic/300		40	480	
	002	Monthly charge for RPG II/300		40	480	
	003	Monthly charge for Image/300		80	960	
31032A	002	Amigo/300 and System Utilities, Prepayment Option			1440	25
31442A		Business Basic/300	1500		1500	15
	002	Business Basic/300, Prepayment Option			720	
31445A		RPG II/300	1500		1500	15
	002	RPG II/300, Prepayment Option			720	
31424A		Image/300 Data Base Management System	2000		2000	25
	002	Image/300, Prepayment Option			1440	

Product Number	Opt.	Description	Price	Monthly Maint. Charge
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### Manuals

31386A		HP 300 Manual Set (included in HP 300 Computer System. Software products also include appropriate manuals and coding forms where applicable)	125	
31387A		HP 300 Applications Guides Set	75	

### Printers

2631A	330	180 character per second Serial Printer, 136 characters per line at 10 characters per inch. Expanded and compressed print modes for 68 and 227 characters per line. Automatic bi-directional printing. Automatic underline and display function mode. 8-channel fixed Vertical Forms Control, horizontal tabs. Includes installation. HP-IB cable not included.	3375	31
	009	Add Extended Roman Character Set	150	
	015	220V, 38-62 Hz operation		
	016	110V, 48-62 Hz operation		
	017	240V, 48-62 Hz operation		
26098A		Pedestal for 2631A Printer	275	
	001	Add casters to pedestal	15	
	002	Add paper catcher	50	



Product Number	Opt.	Description	Monthly Plan 1 48 mos CSS	Prepaid Plan 2 12 mos CSS	Software Subscription Service (SSS)
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### Software and Software Support

Product Number	Opt.	Description	Initial	Monthly	Initial	Monthly (after term)
31499A		Monthly charge for Amigo/300 and System Utilities		80	960	
	001	Monthly charge for Business Basic/300		40	480	
	002	Monthly charge for RPG II/300		40	480	
	003	Monthly charge for Image/300		80	960	
31032A	002	Amigo/300 and System Utilities, Prepayment Option			1440	25
31442A		Business Basic/300	1500		1500	15
	002	Business Basic/300, Prepayment Option			720	
31445A		RPG II/300	1500		1500	15
	002	RPG II/300, Prepayment Option			720	
31424A		Image/300 Data Base Management System	2000		2000	25
	002	Image/300, Prepayment Option			1440	

Product Number	Opt	Description	Price	Monthly Maint. Charge
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### Manuals

31386A		HP 300 Manual Set (included in HP 300 Computer System. Software products also include appropriate manuals and coding forms where applicable)	125	
31387A		HP 300 Applications Guides Set	75	

### Printers

2631A	330	180 character per second Serial Printer, 136 characters per line at 10 characters per inch. Expanded and compressed print modes for 68 and 227 characters per line. Automatic bi-directional printing. Automatic underline and display function mode. 8-channel fixed Vertical Forms Control, horizontal tabs. Includes installation. HP-IB cable not included.	3375	31
	009	Add Extended Roman Character Set	150	
	015	220V, 38-62 Hz operation		
	016	110V, 48-62 Hz operation		
	017	240V, 48-62 Hz operation		
26098A		Pedestal for 2631A Printer	275	
	001	Add casters to pedestal	15	
	002	Add paper catcher	50	



Product Number	Opt.	Description	Price	Monthly Maint. Charge
<b>Interactive Display Terminals</b>				
2640B		Interactive Display Terminal with page or character mode (switch-selectable); 64-character upper case Roman set; 1024 Bytes of storage, expandable to 8192 Bytes; inverse video; RS-232C 110-2400 Baud; 2 option slots. Installation and data cable not included.	2600	18
	001	Add lower case and displayable control characters	100	
	015	220-240V, 50 Hz operation		
	016	115V, 50 Hz operation		
	**	Select terminal accessories from list below		
2645A		Display Station. Block or character mode; 128-character case Roman; 4096 Bytes of memory, expandable to 12288 Bytes; inverse video; editing features; 8 user-defined soft keys; 110-9600 Baud RS-232C; 7 option slots. Installation and data cable not included.	3500	20
	007	Add integrated dual-cartridge tape transports (Requires 2 option slots)	1600	8
	013	Add 5 Mini Cartridges	90	
	015	230V, 50 Hz operation		
	016	115V, 50 Hz operation		
	**	Select terminal accessories from list below		
2648A		Graphics Terminal. 720 x 360 dot graphics image memory and random access alphanumeric memory (expandable by 4K Bytes), 128-character Roman, inverse video, editing, 9 user-definable soft keys, 110-9600 Baud RS-232C, 4 option slots. Installation and data cable not included.	5500	22
	007	Add integrated dual-cartridge tape transports (requires 2 option slots)	1600	8
	013	Add 5 Mini Cartridges	90	
	015	230V, 50 Hz operation		
	016	115V, 50 Hz operation		
2647A		Intelligent Graphics Terminal. 720 x 360 dot graphics image memory and random access alphanumeric memory, BASIC interpreter with graphics commands, multiple automatic plotting, 128-character Roman, inverse video, 8 user-definable soft keys, 75 lines of display memory, RS-232C communications, integrated dual-cartridge tapes, 1 option slot. Installation and data cable not included.	8300	50
	013	Add 5 Mini Cartridges	90	
	015	230V, 50 Hz operation		
	016	115V, 50 Hz operation		

#### Terminal Accessories

13231A		Display enhancements. Adds blinking, half-bright and underline and provides for addition of three 128-character character sets, requires 1 option slot.	250	
	201	Add Mathematical Symbol Set	100	
	202	Add Line Drawing Set	150	



Product Number	Opt.	Description	Price	Monthly Maint. Charge
13234A	203	Add Large Character Set	150	
13232W		Terminal Memory Module (4 KB)	300	
		RS-232 Cable, female connector (plug), 4.5 m (15 ft)	75	

### Mass Storage

7906M	100	10 + 10 MB Master Disc Drive (first drive), includes disc controller and cartridge. HP-IB cable not included.	14800	82
	015	230V, 50 Hz operation		
7906S	100	10 + 10 MB Add-On Disc Drive, includes disc cartridge and data cables.	10000	55
	015	230V, 50 Hz operation		
7920M	100	50 MB Master Disc Drive (first drive), includes disc controller and disc pack. HP-IB data cable not included.	17800	81
	015	230V, 50 Hz operation		
7920S	100	50 MB Add-On Disc Drive, includes disc pack and data cables.	13000	54
	015	230V, 50 Hz operation		
7925M	100	120 MB Master Disc Drive (first drive), includes disc controller and disc pack. HP-IB cable not included.	21800	89
	015	230V, 50 Hz operation		
7925S	100	120 MB Add-On Disc Drive, includes disc pack and data cables.	17000	62
	015	230V, 50 Hz operation		
Installation of disc drives: On-site installation is included unless specified otherwise in an HP Purchase Agreement				

### Cables

31389A		HP-IB Cable, 1 m (3 ft)	60	
31389B		HP-IB Cable, 2 m (7 ft)	65	
31389C		HP-IB Cable, 4 m (13 ft)	75	
31389D		HP-IB Cable, 8 m (26 ft)	90	
31390A		RS-232 Modem Eliminator Cable, 5 m (15 ft)	60	
31391A		RS-232 Extension Cable, 5 m (15 ft)	90	
31391B		RS-232 Extension Cable, 10 m (33 ft)	105	
31391C		RS-232 Extension Cable, 15 m (50 ft)	120	

### Consumables

9162-0061		Mini Cartridge for 2645A Display Station	18	
02631-60060		Ribbon cartridge (black) for 2631A printer, box of 6	15	
02608-90040		2608A Printer Spacing Chart, Pad of 50	15	
02608-60061		Ribbon cartridge (black) for 2608A printer, pack of 6	135	
7120-7364		2608A Paper Alignment Guide	25	
9164-0100		Flexible Discs, Box of 10 (unformatted, double-sided)	90	
12940A		7906 Disc Cartridge	180	
13394A		7920 Disc Pack	600	
13356A		7925 Disc Pack	850	



Product Number	Opt.	Description	Price	Monthly Maint. Charge
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**Training**

31360A		HP 300 Software Consulting (1 day)	500	
31362A		HP 300 Introduction for Programmers	500	
31363A		HP 300 System Course	1500	





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