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COMPAQ SLT/286 Personal Computer *Features/Specifications*



COMPAQ SLT/286

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COMPAQ SLT/286 PERSONAL COMPUTER
FEATURES/SPECIFICATIONS

First Edition (October 1988)
Part Number 110415-001

Compaq Computer Corporation

Introduction

The COMPAQ SLT/286 Personal Computer is the ultimate full-function battery-powered personal computer. Weighing 14 pounds, with a 12-MHz 80C286 microprocessor and a multitude of possible combinations of features and options, the COMPAQ SLT/286 provides the most functionality and flexibility of any laptop computer. In fact, the COMPAQ SLT/286 Personal Computer puts all the power of a desktop in your lap.

The COMPAQ SLT/286 comes standard with internal VGA resolution support on an easy-to-read 10-inch (25.4 cm) diagonal backlit display, a 3½-inch diskette drive, a high-performance fixed disk drive, and a removable keyboard with full-sized keys.

Among the many options provided for the COMPAQ SLT/286 are a 2400-Baud Internal Modem, Desktop Expansion Base, and a 12-MHz 80C287 Coprocessor. Optional storage devices include an external 5¼-Inch Diskette Drive and an external 40-Megabyte Fixed Disk Drive Backup (Tape).

Compaq Computer Corporation, the world leader in portable computers, is the first to combine all of the high performance and functionality you want into one light-weight, easy-to-carry battery-operated system. A system that allows you to be as productive as you can be both in and out of the office—without compromise.

Standard Models and Options

MODEL 40

- 640 Kbytes of Memory
- One 3½-Inch 1.44-Megabyte Diskette Drive
- One 40-Megabyte Fixed Disk Drive

MODEL 20

- 640 Kbytes of Memory
- One 3½-Inch 1.44-Megabyte Diskette Drive
- One 20-Megabyte Fixed Disk Drive

STANDARD FEATURES ON ALL MODELS

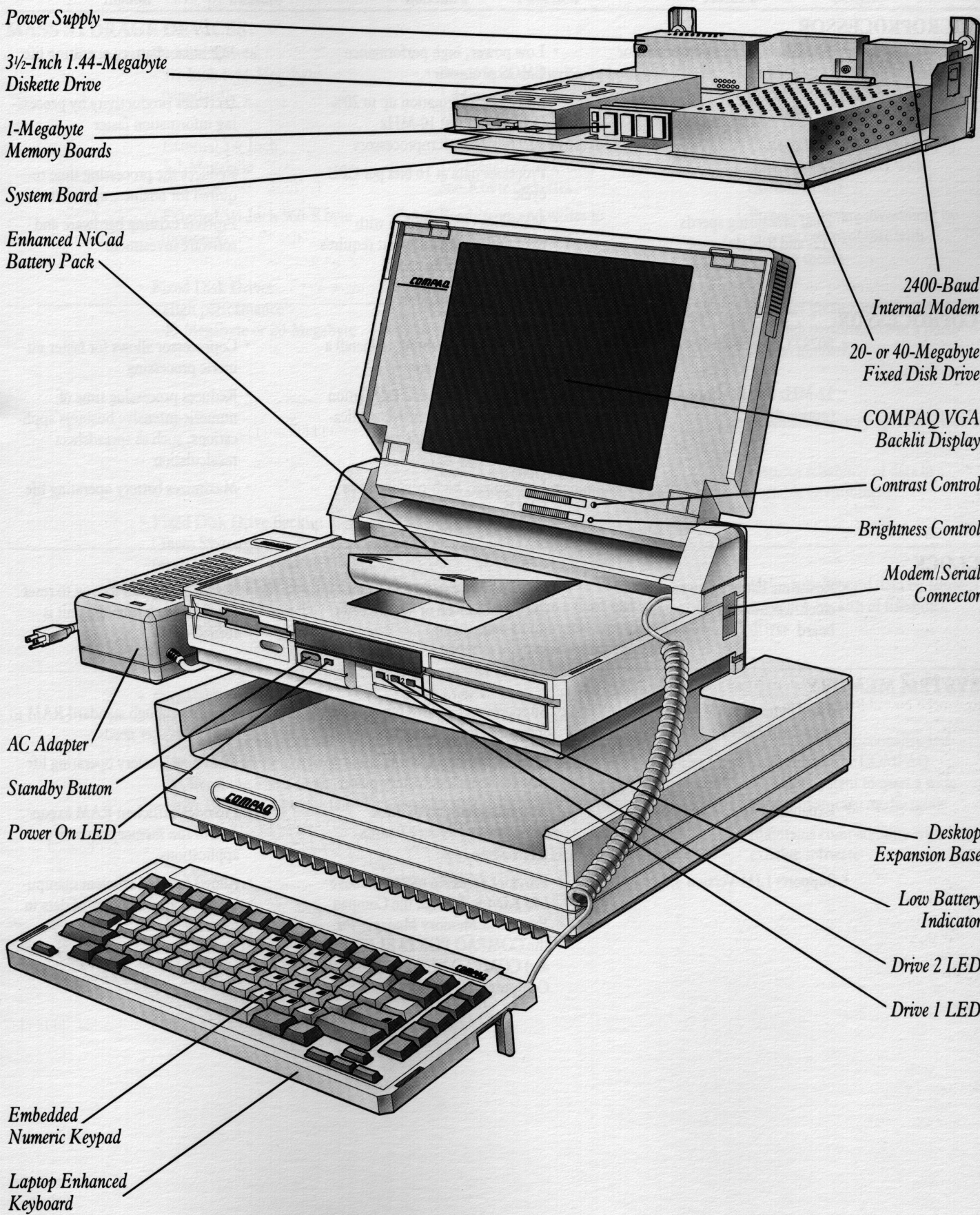
- Enhanced NiCad Battery Pack
- 12-MHz 80C286 Microprocessor
- COMPAQ VGA Backlit Display
- Internal/External VGA Graphics Support
- Removable Keyboard with full-sized keys
- Socket for an 80287 Coprocessor
- AC Adapter
- Real-Time Clock/Calendar
- External VGA Monitor Interface
- Parallel Interface
- High-Speed Asynchronous Communications Interface
- External Enhanced Keyboard Interface
- External Option Interfaces
- Full One-Year Limited Warranty

OPTIONS

- 2400-Baud Internal Modem*
- Desktop Expansion Base
- 40-Megabyte Fixed Disk Drive
- External Storage Module
 - 5¼-Inch Diskette Drive
 - or
 - 40-Megabyte Fixed Disk Drive Backup (Tape)
- 12-MHz 80C287 Coprocessor
- 1-Megabyte Memory Board
- External Numeric Keypad
- Battery Pack
- Asynchronous Communications Interface Board
- Laptop Carrying Case
- COMPAQ Video Graphics Color Monitor
- COMPAQ Video Graphics Monochrome Monitor
- 40-Megabyte Tape Cartridges (DC 2000)
- MS-DOS Version 3 as published by Compaq
- Microsoft Operating System/2 Standard Version 1.0 as published by Compaq
- *COMPAQ SLT/286 Technical Reference Guide*

*Available in countries whose regulations permit.

Features Illustration



Power Supply

3 1/2-Inch 1.44-Megabyte
Diskette Drive

1-Megabyte
Memory Boards

System Board

Enhanced NiCad
Battery Pack

AC Adapter

Standby Button

Power On LED

Embedded
Numeric Keypad

Laptop Enhanced
Keyboard

2400-Baud
Internal Modem

20- or 40-Megabyte
Fixed Disk Drive

COMPAQ VGA
Backlit Display

Contrast Control

Brightness Control

Modem/Serial
Connector

Desktop
Expansion Base

Low Battery
Indicator

Drive 2 LED

Drive 1 LED

COMPAQ SLT/286 Features/Functions/Benefits

Feature	Function	Benefit
MICROPROCESSOR		
<ul style="list-style-type: none">• 12-MHz 80C286 Microprocessor• 16-bit architecture• Dual processing speeds (12- and 8-MHz)	<ul style="list-style-type: none">• Low power, high performance CMOS processor• Processes information up to 20% faster than most 10-MHz 80286-based microprocessors• Processes data at 16 bits per CPU cycle• Maintains compatibility with hardware or software that requires a lower processing speed	<ul style="list-style-type: none">• Maximizes battery operating life• Increases productivity by processing information faster• Reduces the processing time required for business applications• Protects existing hardware and software investment
COPROCESSOR		
<ul style="list-style-type: none">• 80287 Coprocessor Socket• 12-MHz 80C287 Coprocessor (optional)	<ul style="list-style-type: none">• Provides the capability to install a numeric coprocessor• Increases the numeric calculation speed for math-intensive applications, such as spreadsheets• Low-power, high-performance CMOS coprocessor	<ul style="list-style-type: none">• Coprocessor allows for faster numeric processing• Reduces processing time of numeric-intensive business applications, such as spreadsheet recalculation• Maximizes battery operating life
CLOCK		
<ul style="list-style-type: none">• Real-time battery-powered clock/calendar on the system board	<ul style="list-style-type: none">• Provides current date and time during power-on or system reset	<ul style="list-style-type: none">• Saves time by not having to reset the clock each time the unit is turned on
SYSTEM MEMORY		
<ul style="list-style-type: none">• 640 Kbytes of RAM (standard)• Expandable to 3.64 megabytes• Supports LIM Version 3.2	<ul style="list-style-type: none">• Supports up to 640-Kbytes of information for processing• High-performance RAM chips that consume less battery power• Accommodates up to three 1-Megabyte Memory Boards internally• Provides access to memory above 640 Kbytes through the Compaq Expanded Memory Manager for the COMPAQ PORTABLE III and COMPAQ SLT/286 Personal Computers (CEMMP)	<ul style="list-style-type: none">• Provides enough standard RAM to meet most user needs• Maximizes battery operating life• Provides sufficient RAM expansion to run memory-intensive applications• Allows fast and efficient manipulation of large amounts of data in memory

COMPAQ SLT/286 Features/Functions/Benefits

Feature	Function	Benefit
MASS STORAGE DEVICES		
<ul style="list-style-type: none"> • Diskette Drives: <ul style="list-style-type: none"> – 3½-Inch 1.44-Megabyte (standard) – External 5¼-Inch 1.2-Megabyte (optional) – External 5¼-Inch 360-Kbyte (optional) 	<ul style="list-style-type: none"> • Reads from and writes to both 1.44-megabyte and 720-Kbyte 3½-inch diskettes • Reads from and writes to 1.2-megabyte and reads 360-Kbyte diskettes • Reads from and writes to 360-Kbyte diskettes 	<ul style="list-style-type: none"> • Provides small, durable media for portable environment • Protects software investment by offering compatibility with existing media • Protects software investment by offering compatibility with existing media
<ul style="list-style-type: none"> • Fixed Disk Drives <ul style="list-style-type: none"> – High performance 40-Megabyte or 20-Megabyte 	<ul style="list-style-type: none"> • High capacity fixed disk drives with less than 29ms average access time; 1:1 interleave on the 40-megabyte drive; 3:1 interleave on the 20-megabyte drive • Low power consumption modes built-in • Drives are shock-mounted for ruggedness and reliability 	<ul style="list-style-type: none"> • Provides greater storage capacity and high performance in a portable environment • Maximizes battery operating life • Ensures reliability of data in a portable environment
<ul style="list-style-type: none"> • Fixed Disk Drive Backup (Tape) System (optional) <ul style="list-style-type: none"> – External 40-Megabyte Tape Backup (optional) 	<ul style="list-style-type: none"> • Duplicates and verifies 40 megabytes of data from a fixed disk drive onto a removable tape cartridge at a 1-megabyte per minute transfer and verify rate 	<ul style="list-style-type: none"> • Helps to safeguard data by allowing quick backup of fixed disk drives
<ul style="list-style-type: none"> • External Storage Module (optional) <ul style="list-style-type: none"> – Enclosure for an external 5¼-Inch Diskette Drive or 40-Megabyte Fixed Disk Drive Backup (Tape) System 	<ul style="list-style-type: none"> • Allows data exchange between different storage media • Provides the ability to boot the system from the external diskette drive 	<ul style="list-style-type: none"> • Increases the functionality and versatility of the COMPAQ SLT/286 system to meet a wide variety of storage media needs • Maintains compatibility with existing software

COMPAQ SLT/286 Features/Functions/Benefits

Feature	Function	Benefit
DISPLAY		
<ul style="list-style-type: none">• COMPAQ VGA Backlit Display• VGA-, EGA-, and CGA-compatible• 10 in (25.4 cm) diagonal screen• Adjustable angle• Adjustable contrast and backlight	<ul style="list-style-type: none">• Provides a superior quality LCD Display (640 x 480)• Non-glare screen• Supports 320 x 200 in 16 shades of gray or 640 x 480 resolution in 8 shades of gray• Supports all VGA, EGA and CGA software (BIOS compatible)• 80 or 40 characters x 25 lines• Allows variable positioning of the display• Ability to change the contrast and intensity of the backlight	<ul style="list-style-type: none">• A high-contrast display that is easy to read in any light• Enhances readability and reduces eye strain• Provides higher quality text and graphics in a portable environment• Protects existing software investments• Provides full-sized display and characters• Provides viewing comfort which increases productivity• Provides better readability in different lighting conditions

KEYBOARD		
<ul style="list-style-type: none">• Enhanced keyboard layout• Full-sized keys with standard spacing• LED indicators• Removable keyboard• Nested position• Embedded numeric keypad	<ul style="list-style-type: none">• Familiar layout including:<ul style="list-style-type: none">– 12 function keys– Dedicated cursor control keys– 82-key U.S. English layout (83 other)• No difference in key size, spacing, feel, or travel• Indicate the on/off state of the CAPS LOCK, NUM LOCK, and SCROLL LOCK keys• Allows free movement of the keyboard away from the system• Keyboard can be used on top of the system unit• Provides an area on the keyboard for numeric input and cursor movement	<ul style="list-style-type: none">• Provides familiar layout for easy transition from desktop to portable system• Provides keyboard with a familiar feel and size• Increases accuracy of data input through the easy recognition of the key state• Provides comfort which contributes to productivity• Allows system to be used in cramped locations, such as car seat, airplane tray table, etc.• Enables faster and easier input for number-intensive applications

STANDARD INTERFACES		
<ul style="list-style-type: none">• Parallel• High-Speed Asynchronous Communications (Serial)• External VGA Monitor• Desktop Expansion Base• External Storage Module• External Enhanced Keyboard• External Numeric Keypad	<ul style="list-style-type: none">• Allows for connection of external devices	<ul style="list-style-type: none">• Offers flexibility in choosing output devices at no incremental cost and without using an expansion slot

COMPAQ SLT/286 Features/Functions/Benefits

Feature	Function	Benefit
BATTERY POWER		
<ul style="list-style-type: none"> • Internal Enhanced NiCad Battery Pack • Fast-charge capability • Trickle-charge capability • Spare battery pack (optional) • Battery low indicators 	<ul style="list-style-type: none"> • Provides up to 3 hours of system use • Fully recharges the battery in 1.5 to 3 hours • Battery can be continuously charged while the system is connected to the AC Adapter • Easily replaceable battery pack • LED indicators and audible signals that alert the user to low-battery states 	<ul style="list-style-type: none"> • Provides sufficient power for system use when AC power is not accessible • Provides a fast, easy way to maintain a fully-charged battery • Allows the user to continually recharge the battery even while using the system • Allows the user to extend the operating time of the system when the main battery pack runs low • Notifies user to save data before battery power runs out
AC POWER		
<ul style="list-style-type: none"> • AC Adapter • 20-watt power supply • Automatic line selecting (110V to 220V or 240V) 	<ul style="list-style-type: none"> • Plugs directly into the system unit to provide AC power and simultaneously charge the battery • Converts AC power to DC • Automatically adjusts to the voltage of incoming power 	<ul style="list-style-type: none"> • Allows the user to conserve battery life when AC power outlets are accessible • Allows the system to be used while the battery is being recharged • Provides sufficient power to run all system components • Provides system flexibility for international travel
DESKTOP EXPANSION BASE (optional)		
<ul style="list-style-type: none"> • Two full-sized 8-/16-bit industry-standard slots • Separate power supply • Standard interfaces <ul style="list-style-type: none"> – Parallel – External VGA Monitor – External Enhanced Keyboard 	<ul style="list-style-type: none"> • Allows the installation of industry-standard expansion boards • Provides AC power to the COMPAQ SLT/286 system and simultaneously charges the battery • Allows external devices to be connected to the Desktop Expansion Base 	<ul style="list-style-type: none"> • Increases system flexibility and provides the ability to customize the system for particular applications and hardware options • Provides sufficient power to run all system components • Frees the system unit to allow easier transition from an office to a portable environment

COMPAQ SLT/286 Features/Functions/Benefits

Feature	Function	Benefit
OPTIONS		
<ul style="list-style-type: none">• 2400-Baud Internal Modem<ul style="list-style-type: none">– Hayes-compatible– Tone/pulse dialing– Full- or half-duplex– Auto answer/originate• Asynchronous Communications Interface Board• External Numeric Keypad• Laptop Carrying Case<ul style="list-style-type: none">– Black fabric– Shoulder strap– Expandable	<ul style="list-style-type: none">• Provides communications capabilities within the COMPAQ SLT/286 system unit• Supplies an additional internal 9-pin serial port, using the internal modem slot• Provides separate area for numeric input and cursor movement with full-sized keys• Stores the system unit while in transit and accommodates the AC Adapter, other options, and miscellaneous briefcase items	<ul style="list-style-type: none">• Frees the asynchronous communications interface for other serial devices and maintains compatibility with industry-standard communications software• Provides additional system configuration flexibility for users where an external modem is required• Enables faster numeric input and cursor movement while still having full keyboard functionality• Enhances portability by making the system unit easier to carry
EXTERNAL MONITORS		
<ul style="list-style-type: none">• COMPAQ Video Graphics Color Monitor (optional)• COMPAQ Video Graphics Monochrome Monitor (optional)	<ul style="list-style-type: none">• VGA compatible, displaying up to 256 colors in 320 x 200 graphics resolution and 16 colors in 640 x 480 resolution• Displays graphics in 640 x 480 resolution and text in 720 x 400 resolution and allows for black letters on white display	<ul style="list-style-type: none">• Increased resolution provides better color graphics images• Provides a high-quality screen image and a more realistic view of how a printed document will look
PHYSICAL CHARACTERISTICS		
<ul style="list-style-type: none">• Dimensions:<ul style="list-style-type: none">– Height 4.15 in (10.54 cm)– Depth 8.50 in (21.59 cm)– Width 13.50 in (34.29 cm)• Weight:<ul style="list-style-type: none">– Models 20/40— 14 lbs (6.3 kg)	<ul style="list-style-type: none">• Provides full-functionality in a compact, portable unit• Provides full-function computing in a light-weight, easy-to-carry system	<ul style="list-style-type: none">• The system is easy to carry and is small enough to be used in cramped spaces• Light weight maximizes portability
SOFTWARE UTILITIES		
<ul style="list-style-type: none">• Advanced Display Attribute Programming Tool (ADAPT)• Power Conservation Utility (PWRCON)	<ul style="list-style-type: none">• Enables the adjustment of gray scales on the screen• Allows a user to change the time-out values used to power-down specific subsystems during periods of inactivity	<ul style="list-style-type: none">• Optimizes the readability of text on the display• Enables a user to run applications that require little user interaction, such as presentations, without the system or subsystems being powered down as frequently

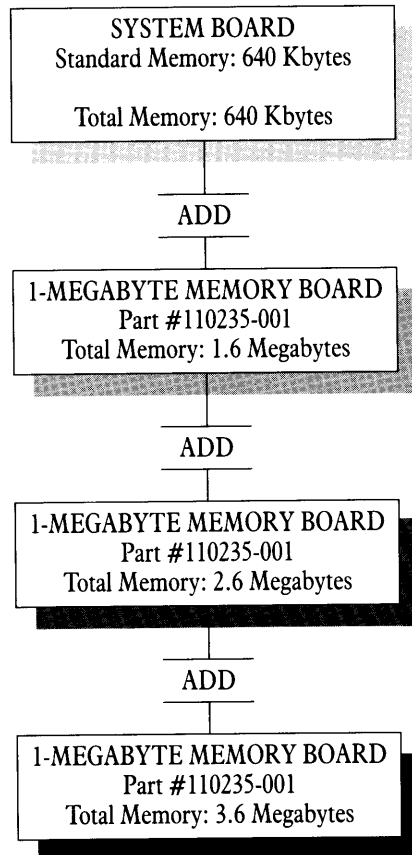
COMPAQ SLT/286 Features/Functions/Benefits

Feature	Function	Benefit
SOFTWARE UTILITIES (continued)		
<ul style="list-style-type: none"> • Screen Save 	<ul style="list-style-type: none"> • A user-modifiable software feature that turns off the backlight and display when the system has not been used for a specified period of time 	<ul style="list-style-type: none"> • Maximizes battery operating life • Provides privacy while the system is unattended
<ul style="list-style-type: none"> • Compaq Expanded Memory Manager for COMPAQ PORTABLE III and COMPAQ SLT/286 Personal Computers (CEMMP) 	<ul style="list-style-type: none"> • Supports the Lotus/Intel®/Microsoft® (LIM) Expanded Memory Specifications (EMS) Standard Version 3.2 	<ul style="list-style-type: none"> • Enables applications to access memory beyond the MS-DOS limitation of 640 Kbytes and allows fast and efficient manipulation of large amounts of data, without having to purchase additional hardware
<ul style="list-style-type: none"> • Disk Cache 	<ul style="list-style-type: none"> • Increases the performance of fixed disk drive read operations by improving access to data stored on the fixed disk drive 	<ul style="list-style-type: none"> • Increases productivity by providing faster access to frequently used data
OPERATING SYSTEMS		
<ul style="list-style-type: none"> • MS-DOS Version 3 Diskettes and Reference Guides (optional) 	<ul style="list-style-type: none"> • Breaks the 32-megabyte barrier and enables partitioning of high-capacity fixed disk drives into logical drives of up to 512 megabytes each, when using MS-DOS Version 3.3 or higher 	<ul style="list-style-type: none"> • Ensures compatibility with the installed base of software and allows greater use of large capacity fixed disk drives
<ul style="list-style-type: none"> • MS OS/2 Diskettes and Reference Guides (optional) 	<ul style="list-style-type: none"> • Supports 3½-inch diskette drive on MS-DOS Version 3.3 or higher • Provides a multitasking feature, which allows an application to run in the foreground while other applications continue to run in the background • Provides a task switching feature, which allows movement from one application to another using a quick key combination 	<ul style="list-style-type: none"> • Provides flexibility in choice of diskette drives • Increases productivity by allowing concurrent task processing • Eliminates time previously spent entering and exiting applications

Memory Expansion

The COMPAQ SLT/286 Personal Computer is configured with 640 Kbytes of RAM. Standard memory can be increased to a maximum system total of 3.64 Megabytes by using up to three 1-Megabyte Memory Boards. The Memory Boards provide expanded memory under the Lotus/Intel/Microsoft

(LIM) Expanded Memory Specification (EMS) Standard, Version 3.2. The additional memory may also be used as extended memory. Each Memory Board provides a maximum of 1.0 Megabytes. The following flowchart illustrates the COMPAQ SLT/286 memory expansion options:



SYSTEM UNIT

	English	Metric
Dimensions		
Height	4.15 in	10.54 cm
Depth	8.50 in	21.59 cm
Width	13.50 in	34.29 cm
Weight		
Model 40	14 lb	6.3 kg
Model 20	14 lb	6.3 kg
Standalone Power Requirements		
Nominal Operating Voltage	12 Vdc	12 Vdc
Average Power	8.5 W	8.5 W
Maximum Power	11 W	11 W
Peak Power	17 W	17 W
Temperature Range		
Operating	50° to 95°F	10° to 35°C
Nonoperating	32° to 140°F	0° to 60°C
Shipping	-4° to 140°F	-20° to 60°C
Relative Humidity (noncondensing)		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
Maximum Unpressurized Altitude		
Operating	10,000 ft	3,048 m
Nonoperating	40,000 ft	12,192 m

STORAGE DEVICE PERFORMANCE

DISKETTE DRIVES	1.44-MEGABYTE (standard)	1.2-MEGABYTE (optional)	360-KBYTE (optional)
Diskette Size	3½-in	5¼-in	5¼-in
Enclosure Unit	Internal	External Storage Module	External Storage Module
LED Indicators			
Read/Write (high density)	Green	Green	N/A
Read/Write (low density)	Orange	Orange	Orange
Capacity Per Diskette (high/low)	1.44MB/720KB	1.2MB/360KB	360KB
Drives Supported	One	One	One
Drive Height	1 in	One-Third	One-Third
Drive Rotation (rpm)	300	360	300
Transfer Rate (bits/sec)(high/low)	500K/250K	500K/300K	250K
Bytes Per Sector	512	512	512

Technical Specifications

STORAGE DEVICE PERFORMANCE

DISKETTE DRIVES (continued)	1.44-MEGABYTE (standard)	1.2-MEGABYTE (optional)	360-KBYTE (optional)
Sectors Per Track (high/low)	18/9	15/9	9
Tracks Per Side (high/low)	80/80	80/40	40
Access Times			
Track-to-Track (ms)	3	3	6
Average (ms)	79	79	80
Settling Time (ms)	15	15	15
Latency Average (ms)	100	84	100
Cylinders (high/low)	80/80	80/40	40
Read/Write Heads	2	2	2

FIXED DISK DRIVES	40-MEGABYTE	20-MEGABYTE
Standard Configuration	Model 40	Model 20
LED Indicator	Orange	Orange
Formatted Capacity	42.92 MB	21.41 MB
Drives Supported	One	One
Drive Height	1 in	1 in
Drive Size	3½-in	3½-in
Drive Type(s) Supported	22	2
Transfer Rate (bps)	12 M	10 M
Sector Interleave	1:1	3:1
Access Times (including settling)		
Track-to-Track (ms)	8	8
Average (ms)	29	29
Maximum (ms)	50	50
Physical Configuration		
Cylinders	1053	636
Heads	2	2
Sectors Per Track	40	33
Bytes Per Sector	512	512
Logical Configuration		
Cylinders	524	615
Heads	4	4
Sectors Per Track	40	17
Bytes Per Sector	512	512

Technical Specifications

POWER SUPPLIES

ENHANCED NICAD BATTERY PACK (standard)

	English	Metric
Dimensions		
Height	1.20 in	3.05 cm
Depth	5.40 in	13.72 cm
Width	4.38 in	11.13 cm
Weight	1.84 lb	0.84 kg
Power Supply		
Nominal Open Circuit Voltage	12 Vdc	12 Vdc
Capacity	2.4 Amp hr	2.4 Amp hr
Power	29 Whr	29 Whr
Temperature Range		
Operating	14° to 104°F	-10° to 40°C
Nonoperating	-4° to 140°F	-20° to 60°C
Shipping	-4° to 140°F	-20° to 60°C

AC ADAPTER (standard)

Dimensions		
Height	2.40 in	6.10 cm
Depth	8.60 in	21.84 cm
Width	3.40 in	8.64 cm
Weight	1.75 lb	0.79 kg
Power Supply		
Operating Voltage	110/220-240 Vac	110/220-240 Vac
Steady State Power	20 W	20 W
Peak Power	33 W	33 W
Operating Current	1 A	1 A
Frequency	50/60 Hz	50/60 Hz
Temperature Range		
Operating	50° to 95°F	10° to 35°C
Nonoperating	32° to 140°F	0° to 60°C
Shipping	-22° to 140°F	-30° to 60°C

KEYBOARDS

LAPTOP ENHANCED KEYBOARD (standard)

	English	Metric
Dimensions		
Height	.65 in	1.65 cm
Depth	6.45 in	16.38 cm
Width	13.50 in	34.29 cm
Weight	1.38 lb	.63 kg
Number of Keys	82 (U.S. English)	83 (Other)
Cable Extended Length	24.00 in	60.96 cm
Coil Diameter	0.56 in	1.42 cm
Interface	6-pin mini-DIN connector	6-pin mini-DIN connector

EXTERNAL NUMERIC KEYPAD (optional)

Dimensions		
Height	.80 in	2.00 cm
Depth	6.30 in	16.00 cm
Width	4.90 in	12.45 cm
Weight	.53 lb	.24 kg
Number of Keys	24	24
Cable Length	14.50 in	36.80 cm
Interface	SC51-2 Style high density .05-in connector	SC51-2 Style high density .05-in connector

ENHANCED KEYBOARD (optional)

Dimensions		
Height	1.70 in	4.32 cm
Depth	6.80 in	17.27 cm
Width	18.90 in	48.01 cm
Weight	4.00 lb	1.81 kg
Number of Keys	101 (U.S. English)	102 (Other)
Cable Extended Length	8.50 ft	2.59 m
Interface		
System End	6-pin circular mini-DIN connector	6-pin circular mini-DIN connector
Keyboard End	6-pin SDL connector	6-pin SDL connector

Technical Specifications

DISPLAYS

COMPAQ VGA BACKLIT DISPLAY (standard)

	English	Metric
Dimensions		
Height (image area)	5.86 in	14.88 cm
Width (image area)	7.81 in	19.84 cm
Display Type	Compensated Supertwist LCD	Compensated Supertwist LCD
Mounting	Internal	Internal
Diagonal Size	10.00 in	25.40 cm
Video Modes Supported	VGA, EGA, or CGA	VGA, EGA, or CGA
Maximum Pixel Resolution	640 x 480	640 x 480
Gray Scales	8/16	8/16
Character Display	80/40 x 25	80/40 x 25
Brightness/Contrast	Adjustable	Adjustable
Horizontal Frequency	30 KHz	30 KHz
Vertical Frequency	70 Hz	70 Hz

COMPAQ VIDEO GRAPHICS COLOR MONITOR (optional)

Type	Analog/Color	Analog/Color
Mounting	External	External
Maximum Resolution		
Text Mode	720 x 400	720 x 400
Graphics Mode	640 x 480	640 x 480
Character Display	80 x 25	80 x 25
Color Scale	Supports up to 256 colors	Supports up to 256 colors
Brightness	Adjustable	Adjustable
Diagonal Size	14.1 in	35.8 cm
Bandwidth	30.0 MHz	30.0 MHz
Horizontal Frequency	31.5 KHz	31.5 KHz
Vertical Frequency	60/70 Hz	60/70 Hz

MONITOR UNIT

Dimensions		
Height	14.10 in	35.80 cm
Depth	14.50 in	36.80 cm
Width	13.80 in	35.10 cm
Weight	36.00 lb	16.30 kg

DISPLAYS

VIDEO GRAPHICS MONOCHROME MONITOR (optional)

	English	Metric
Type	Analog/Monochrome	Analog/Monochrome
Mounting	External	External
Maximum Resolution		
Text Mode	720 x 400	720 x 400
Graphics Mode	640 x 480	640 x 480
Character Display	80 x 25	80 x 25
Gray Scale	64 Levels	64 Levels
Brightness	Adjustable	Adjustable
Diagonal Size	12.0 in	30.5 cm
Bandwidth	30.0 MHz	30.0 MHz
Horizontal Frequency	31.5 KHz	31.5 KHz
Vertical Frequency	60/70 Hz	60/70 Hz

MONITOR UNIT

Dimensions		
Height	10.20 in	25.90 cm
Depth	12.60 in	32.00 cm
Width	11.70 in	29.70 cm
Weight	13.00 lb	5.90 kg

COMMUNICATIONS

2400-BAUD INTERNAL MODEM (optional)

Dimensions		
Height	1.80 in	4.57 cm
Depth	0.78 in	1.98 cm
Width	4.45 in	11.30 cm
Weight	3.46 oz	98.09 gm
Type	Hayes-Compatible	Hayes-Compatible
	2400-Baud—CCITT V.22	2400-Baud—CCITT V.22
	1200-Baud—Bell 212A and CCITT V.22	1200-Baud—Bell 212A and CCITT V.22
	300-Baud—Bell 103J and CCITT V.21	1200/600-Baud—CCITT V.23
		300-Baud—Bell 103J and CCITT V.21
Dial Type	Tone or Pulse	Tone or Pulse

Technical Specifications

EXTERNAL EXPANSION

DESKTOP EXPANSION BASE (optional)

	English	Metric
Dimensions		
Height	4.3 in	10.9 cm
Depth	13.8 in	35.0 cm
Width	15.1 in	38.4 cm
Slots	Two 8-/16-bit slots	Two 8-/16-bit slots
Power Supply		
Operating Voltage	110/220-240 Vac	110/220-240 Vac
Steady State Power	80 W	80 W
Peak Power	90 W	90 W
Operating Current	2.5 A	2.5 A
Frequency	50/60 Hz	50/60 Hz
Temperature Range		
Operating	50° to 95°F	10° to 35°C
Nonoperating	32° to 140°F	0° to 60°C
Shipping	-4° to 140°F	-20° to 60°C

EXTERNAL STORAGE MODULE (optional)

Dimensions		
Height	4.12 in	10.47 cm
Depth	9.75 in	24.77 cm
Width	7.50 in	19.05 cm
Weight		
Without Storage Device	6.25 lb	2.84 kg
With Storage Device	8.25 lb	3.74 kg
Power Supply		
Operating Voltage	110/220-240 Vac	110/220-240 Vac
Steady State Power	15 W	15 W
Peak Power	33 W	33 W
Operating Current	1.5 A	1.5 A
Frequency	50/60 Hz	50/60 Hz
Storage Devices Supported		
5¼-in 1.2-Megabyte Diskette Drive	one	one
5¼-in 360-Kbyte Diskette Drive	one	one
40-MB Fixed Disk Drive Backup (Tape) System	one	one

Q: *Why did Compaq wait until now to announce a laptop personal computer?*

A: Compaq Computer Corporation is dedicated to producing products that meet high standards of quality and excellence. Because of this commitment, Compaq did not introduce a laptop computer system until the technology was available that would produce the ultimate 80286 laptop computer: a highly portable, fully functional, and highly reliable battery-powered computer system.

Q: *How much faster is the 12-MHz 80C286 microprocessor than 10-MHz 80286 microprocessors?*

A: The 12-MHz 80C286 microprocessor in the COMPAQ SLT/286 Personal Computer will run up to 20 percent faster than most 10-MHz 80286 microprocessors.

Q: *What is a CMOS Processor? What is the benefit of an 80C287 Coprocessor?*

A: The “C” in the 80C287 and 80C286 Processor names stands for “CMOS” (Complementary Metal Oxide Semiconductor) chips. CMOS chips are manufactured through a special process that creates microprocessor chips which use less power but provide the same performance as other microprocessors. For the user of the battery-operated COMPAQ SLT/286, this means that battery power is maximized, providing longer use of the system. A coprocessor is specially designed to run mathematical and numeric-intensive applications. The coprocessor performs mathematical calculations to a higher level of accuracy than the main processor.

Q: *What is the purpose of the Desktop Expansion Base?*

A: The Desktop Expansion Base contains expansion slots for two industry-standard 8-/16-bit expansion boards, which provide increased functionality for the COMPAQ SLT/286 system. For example, a user can install Local Area Network or communication cards in the Desktop Expansion Base. In addition to the two available expansion slots, the COMPAQ SLT/286 Desktop Expansion Base contains three standard interfaces which duplicate interfaces on the COMPAQ SLT/286 system unit: parallel, external VGA monitor, and external enhanced keyboard. Thus a printer, VGA monitor, and keyboard can be permanently attached to the Desktop Expansion Base. Because these devices do not have to be attached to the COMPAQ SLT/286 system itself, the user can make an easy transition from an office to a portable environment without awkward cabling and uncabling each time. Finally, the Desktop Expansion Base trickle-charges or fast-charges the battery when the COMPAQ SLT/286 system is connected to it.

Q: *How does the COMPAQ VGA Backlit Display differ from other laptop displays?*

A: The COMPAQ VGA Backlit Display is a high-quality LCD display that features internal VGA graphics support to provide higher quality text and graphics. The screen provides 8 gray scales in high-resolution mode (640x480) or 16 gray scales in low-resolution mode (320x200), and at 10 inches diagonally, the screen is larger than most laptop screens. This high-contrast display also features a non-glare screen that enhances readability and reduces eye strain, thus increasing productivity. Finally, the COMPAQ VGA Backlit Display has a Screen Save Feature to maximize the battery life and provide privacy for the user.

Q: *Can I attach the COMPAQ Video Graphics displays to the COMPAQ SLT/286 Personal Computer?*

A: Yes. The COMPAQ Video Graphics displays may be attached to the COMPAQ SLT/286 through the external VGA connector. Either the COMPAQ Video Graphics Color Monitor or the COMPAQ Video Graphics Monochrome Monitor will operate using the COMPAQ SLT/286 internal VGA support for maximum visual impact. No additional controller board is required.

Q: *What is the Screen Save feature?*

A: Screen Save is a feature of the COMPAQ VGA Backlit Display which gives COMPAQ SLT/286 Personal Computer users additional privacy and conserves battery power. Screen Save allows users to set a screen inactivity time limit which, if exceeded, allows the system to automatically blank the screen. A key touch will return the display to its original state.

Q: *What is the SLT/286 Power Conservation Feature?*

A: Power Conservation is a function of the COMPAQ SLT/286 specifically designed to maximize battery life while the system is being used under battery power. Power Conservation, a combination of hardware and software functions, monitors the system operations and powers down the different hardware subsystems when they are not being used in order to minimize battery power consumption and maximize the time that you can use the system. Hardware features that are monitored include the microprocessor, fixed disk drive, LCD display, keyboard, and optional modem. The default time-out values used in Power Conservation can be changed through the SETUP Program or during a user session through the Power Conservation Utility (PWRCON).

Questions and Answers

Q: *Can any other battery pack be used to operate the COMPAQ SLT/286?*

A: No. The COMPAQ Enhanced NiCad (Nickel Cadmium) Battery Pack that comes standard with the COMPAQ SLT/286 Personal Computer has been specially designed to run the computer. With proper care, the Enhanced NiCad battery pack will last for several years. The battery pack should be kept in the system at all times to prevent damage to the battery pack and to the COMPAQ SLT/286 system. In addition, the battery pack contacts should not come into direct contact with other metal devices. Spare battery packs are available for purchase so that a user can always have an extra fully-charged battery pack on hand.

Q: *Is there an international power supply available for the COMPAQ SLT/286?*

A: The COMPAQ SLT/286 AC Adapter provides automatic line selecting. It will automatically adjust to the voltage of incoming power, whether it is 110 Volts AC or 220-240 Volts AC.

Q: *Is the memory provided on the 1-Megabyte Memory Board compatible with the LIM specification?*

A: Yes. This board supports the Lotus/Intel/Microsoft Expanded Memory Specification, Version 3.2.

Q: *What is the product warranty for the COMPAQ SLT/286 Personal Computer and options?*

A: The COMPAQ SLT/286 Personal Computer and its specific options carry a Full One-Year Limited Warranty from the date of purchase. All other options provide a 90-day limited warranty, or the balance of the system warranty, whichever is greater.