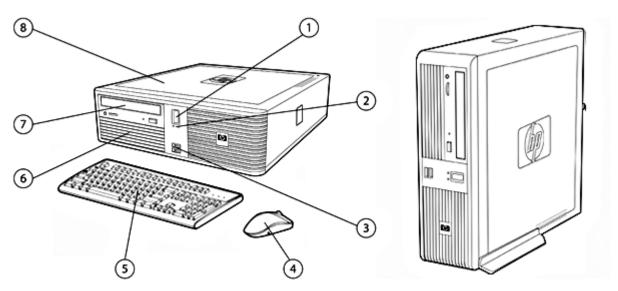
Overview

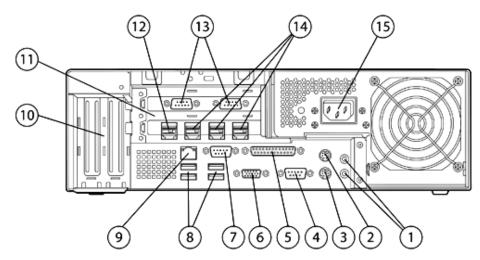
HP rp5700 Point of Sale (POS) System

HP recommends Windows Vista® Business



- 1. Recessed power button
- 2. LEDs
- 3. 2 USB 2.0 ports with rubber cover
- 4. 2-button scroll mouse

- 5. Keyboard
- 6. Internal hard drive
- 7. External optical drive
- 8. Second internal hard drive



- 1. Line in and line out audio jacks
- 2. PS/2 mouse port
- 3. PS/2 keyboard port
- 4. RS232 serial COM1 port
- 5. Parallel port
- 6. VGA port
- 7. RS232 serial COM2 port

- 8. 4 USB 2.0 ports
- 9. RJ-45 LAN jack
- 10. 2 half-height slots: left ADD2/SDVO slot, right PCle-x1
- 11. 2 full-height PCI slots
- 12. 1 USB 2.0, USB + PWR port: +24V
- 13. 2 RS232 serial COM3 and 4 ports (some models)
- 14. 3 USB 2.0, USB + PWR ports: +12V
- 15. 240-W power supply (no line switching required)



Overview

At A Glance

- Intel® Core™2 Duo processor, Intel Pentium® Dual-Core processor, or Intel Celeron® processor
- One of the following operating systems:
- Genuine Windows® XP Professional
- Genuine Windows Vista Business 32 edition
- Genuine Windows Embedded for Point of Service (WEPOS)
- FreeDOS
- Intel Q963 chipset with Intel GMA 3000 and support for dual independent displays
- Dual Channel, PC2-5300, DDR2 system memory
- Integrated Broadcom 5755 NIC 10/100/1000 with integrated TPM support
- SMART III serial ATA 3.0Gb/s Hard Drives
- RAID level 0, 1, and 10 support
- Manageability tools
- 5 year long lifecycle Point of Sale System
- 80 PLUS® highly efficient power supply rating standard on all models
- Energy Star compliance with energy-saving features. Certain system configurations may not be Energy Star 4.0 compliant
- EPEAT-GOLD compliant on selected models
- Protected by HP Services, including a 3-3-3, standard warranty. Terms and conditions vary by country. Certain restrictions and exclusions apply.
- For additional information, visit www.hp.com/go/rp5700 or www.hp.com/go/POS

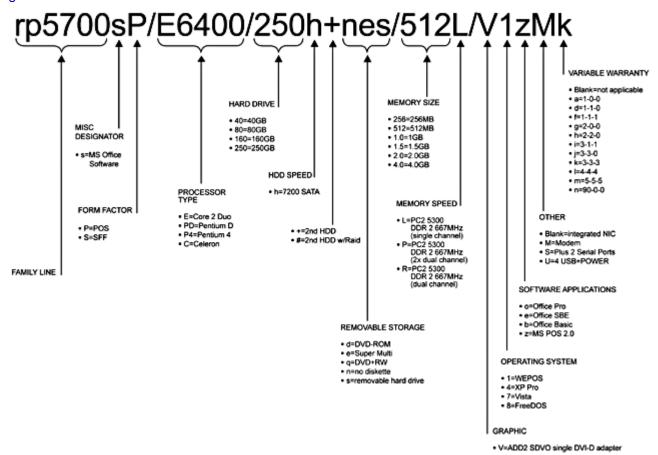
NOTE: All models and features may not be available in all countries.



Standard and Configurable Components

Model Key and Example

NOTE: This diagram is an example that illustrates how to read the model number. It is not intended to give every available configuration choice specified in the body of this document and may include references to modules that are out of date and no longer available.



Operating System -One of the following

Genuine Windows XP Professional SP2 Genuine Windows Vista Business 32 edition

Genuine Windows Embedded for Point of Service (WEPOS)

FreeDOS

Value-added

with FreeDOS) Not all models.

HP ProtectTools Security Software Suite* Software (not included HP Client Management Solutions (visit http://www.hp.com/go/easydeploy) software included with all HP Backup and Recovery Manager

HP Insight Diagnostics Computer Setup Utility

Symantec AntiVirus with 60 day Live Update

Subscription

Intervideo WinDVD (supplied with DVD drive)

Microsoft Office 2007 Basic*

Microsoft Office 2007 Professional* Microsoft Office 2007 Small Business*

Microsoft Internet Explorer

HP Open View Radia Management Agent

Altiris Deployment Solution Agent

SoftThinks

Roxio Easy Media Creator (included with DVD

drives)

Sun Java Runtime Environment

Vista Easy Setup

Microsoft Dynamics – Point of Sale 2.0*



Standard and Configurable Components

* Sold separately.

Value-added Services and **Features**

HP Stable Platform Program with Product

Change Notification Business-to-Business Portals Factory Express Deployment and Lifecycle

Services (sold separately)

TPM 1.2* Vista Bit-Locker Ready

* TPM module disabled where use is restricted by law; for example, Russia.

Service and Support On-site Warranty and Service NOTE 1This three-year, limited warranty and service offering delivers three years of on-site, next business-day NOTE 2 service for parts and labor and includes free telephone support^{NOTE 3} 24 x 7. Global coverage^{NOTE 2} ensures that any product purchased in one country and transferred to another non-restricted country will remain fully covered under the original warranty and service offering. The rp5700 is available for sale in the Americas and EMEA only

> **NOTE 1**: Terms and conditions may vary by country. Certain restrictions and exclusions apply. NOTE 2: On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

NOTE 3: Technical telephone support applies only to HP-configured, HP and HP-qualified, thirdparty hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.

Dimensions and Weight

Chassis Dimensions

 $3.94 \times 13.4 \times 15$ in $(10 \times 34 \times 38$ cm)

(HxWxD)

System weight*

19.62 lb (8.9 kg)

System volume

approximately 13 liters (13.74 quarts)

Shipping weight*

27.3 lb (12.355 kg)

Shipping box

dimensions

23.38 x 19.68 x 9.00 inches (59.38 x 49.99 x 22.85 cm)

Monitor weight

77 lb (35 kg) maximum

supported

* Configured with 2 hard drives, 1 optical drive, no diskette drive, USB and COM cards (POS models), and tower stand.

Power Supply

240W Custom Power Supply Active PFC. No line switching required.

Ports USB 6 USB 2.0 (2 front, 4 rear)

Plus 4 additional USB+POWER; 3 @ 12V, 1 @ 24V

2 RS232 individually configurable to power 5V & 12 V. COM1 can be **Serial**

configured for 5V, 9V, and 12V

Plus 2 additional RS232 on some models via PCI card. Individually

configurable to power 5V and 12V

Parallel 1 2 PS/2 Video

Audio 2, line in and line out





Standard and Configurable Components

NIC RJ-45

Support for Multi- available via HP ADD2 SDVO DVI-D Adapter

Monitor*

* The rp5700 supports normal (or non-reversed) layout (Advanced Digital Display 2) adapter cards inserted into the SDVO (Serial Digital Video Output) connector on the system board. This connector has the physical appearance of a PCle- x16 connector; however, conventional PCle cards are not supported in this connector.

Chipset

Intel Q963 with ICH8-RAID

Processor and Speed*

Intel Core2 Duo Processor E6400e (2.13-GHz, 2-MB L2 cache, 1066-MHz FSB)
Intel Pentium Dual-Core Processor E2160 (1.80-GHz, 1-MB L2 cache, 800-MHz FSB)

One of the following Intel Celeron Processor 440 (2-GHz, 512-KB L2 cache, 800-MHz FSB)

Memory

DDR2 SYNCH DRAM NON-ECC MEMORY

Memory upgrades are accomplished by adding single or multiple DIMMs of the same or varied sizes. This chart does not represent all possible memory configurations. The Intel Q963 Express chipsets support non-ECC DDR2 PC2-5300 (667-MHz)

HP recommends dual-channel symmetric configurations for maximum performance.

For best performance, add the same amount of total memory to each channel and do not mix speeds. For dual-channel symmetric performance, the total amount of memory in each channel must be equal. If speeds are mixed, speed will default to the slowest DIMM.

512-MB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (1 x 512 MB)

512-MB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (2 x 256 MB)

1-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (1 x 1 GB)

1-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (2 x 512 MB)

2-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (1 x 2 GB)

2-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (2 x 1 GB)

3-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (3 x 1 GB)

4-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non ECC (4 x 1 GB)

Maximum Memory

Supports up to 4 GB of DDR2 Synch DRAM.

Slot 1 is black and must always be populated. Not all memory configurations possible are represented below.

NOTE: Above 3-GB, all memory may not be available due to system resource requirements.

DIMM Size		Slot		
	Chan	Channel A Channel B		nnel B
	1 (black)	2 (white)	3 (black)	4 (white)
512 MB	512 MB			
1 GB	1 GB			



^{*} Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

Standard and Configurable Components

1 GB	512 MB		512 MB	
2 GB	1 GB		1 GB	
2 GB	2 GB			
2 GB	512 MB	512 MB	512 MB	512 MB
3 GB	1 GB		2 GB	
3 GB	2 GB		1 GB	
4 GB	1 GB	1 GB	1 GB	1 GB

Slots PCI 2 full-height, half-length PCI, 1 half-height PCIe-1x

SDVO/ADD2

Storage Internal bays 2 3.5-inch ATA hard drive

External bay 1 5.25-inch optical drive

Hard Drive Interfaces 2 Serial ATA interfaces with RAID controller option. Supports RAID 0,

Supported 1, and 10.

Hard Drive SATA 3.0 Gb/s and 1.5 Gb/s

Controller Supported Serial-ATA 3

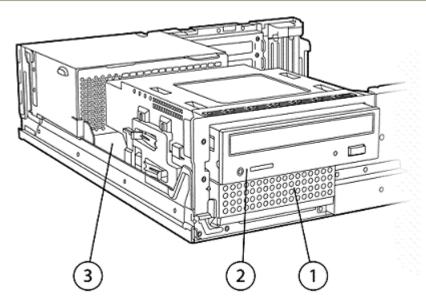
connectors

Hard Drive – 80-GB, 160-GB, 250-GB SATA 3.0 Gb/s, 7200 rpm

One of the following 80-GB, 160-GB, 250-GB SATA 3.0 Gb/s, 7200 rpm with RAID 1

Removable Storage - 16X/48X SATA DVD-ROM

One of the following 16X SATA SuperMulti LightScribe Drive



Front View	Quantity Supported	Position	Controller
Diskette Drives	0	0	N/A
3.5-inch Serial ATA Hard Drive	3	1, 2*, 3	SATA
Optical Drive Bay or Carrier for Hard Drive	1	2	SATA





Standard and Configurable Components

* Requires optional Hard Drive Carrier

Security	FPM 1.2 Embedded Security Chip* integrated with Broadcom NIC

HP ProtectTools Security Software Suite with BIOS Configuration (serial, parallel, USB

enable/disable), Credential Manager, Smart Card Manager (sold separately)

HP Desktop Security Lock Kit (lock and cable) (sold separately)

Security cable with Kensington lock (sold separately)

Wall Mount/Security Sleeve (sold separately)

Security loop hole 0.212 inch (0.538 cm)

diameter

*NOTE: TPM module disabled where use is restricted by law; for example, Russia.

NIC Broadcom 5755 10/100/1000 NIC with TPM 1.2 support

Communications HP Wireless A+G PCI Adapter Card (optional)

2006 Agere PCI 56K International SoftModem (optional)

Graphics Integrated Intel Graphics Media Accelerator 3000. Support for dual display via optional HP

ADD2 SDVO DVI-D Adapter

Audio Intel integrated high-definition audio with 2-channel Realtek ALC 262 codec and internal

amplified chassis speaker

Input/Output Devices Keyboard - PS/2 keyboard

One of the following USB keyboard

No keyboard optional

PS/2 scroll mouse

Mouse -

One of the following USB scroll mouse

Optical scroll mouse

No mouse optional

Miscellaneous

Tower stand standard



After-Mari	ket O	ptions
------------	-------	--------

Communications	HP Wireless A+G PCI Adapter	EA118AA
	Modem RJ11 Telecoms Adapter Kit	DC131C
	2006 Agere PCI 56K International SoftModem	EK694AA
	HP ADD2 SDVO DVI-D Adapter	DY674A
	DVI to DVI Cable	DC198A
Hard Drives	HP 80-GB SATA 3.0 Gb/s	PY276AA
	HP 160-GB SATA 3.0 Gb/s	PY277AA
	HP 250-GB SATA 3.0 Gb/s	PY278AA
	HP 3.5-inch Removable SATA Hard Drive Carrier (inserts into optical drive bay for non-HP hard drive support)	DS710B
Optical Drives	16X SATA SuperMulti LightScribe Drive	GF343AA
	16X/48X SATA DVD-ROM	AH047AA
Input/Output	HP PS/2 Keyboard	DT527A
Devices	HP USB Keyboard	DT528A
	HP PS/2 2-Button Optical Scroll Mouse	EY703AA
	HP USB Smart Card Keyboard	ED707AA
	HP USB 2- Button Optical Scroll Mouse (Carbonite/Silver)	DC172B
POS Model Options	HP Cash Drawer	EY024AA
-	HP USB Barcode Scanner	EY022AA
	HP USB Mini MSR	EY026AA
	HP USB POS Keyboard	EY025AA
	HP USB Receipt Printer	EY023AA
	Microsoft – Point of Sale 2.0	RA693A
Memory (DIMMs)	512-MB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC	PX975AA
	1-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC	PX976AA
	2-GB DDR2 Synch DRAM PC2-5300 (667-MHz) Non-ECC	PX977AA
Monitors	HP L1506 15-inch TFT Flat Panel Monitor – Analog only	PX848AA
	HP L1706 17-inch TFT Flat Panel Monitor – Analog only	PX849AA
	HP L1740 17-inch TFT Flat Panel Display – Analog/Digital	PL766AA
	HP L1755 17-inch TFT Flat Panel Display – Analog/Digital	PL777AA
	HP L1906 19-inch TFT Flat Panel Display – Analog only	PX850AA



After-Market Options

Software	HP ProtectTools (1 user)	RG984AA
	HP Business PC Security Lock Kit	PV606AA
Security	Kensington Security Lock Kit	PC766A
	HP v7650 17-inch (16.0 vis) Flat-face CRT Monitor	PF996AA
	HP s7540 17-inch (16.0 vis) CRT Monitor	PF997AA
	HP L5006tm 15-inch LCD Touchscreen Monitor	RB146AA
	HP LP2065 20-inch TFT Flat Panel Display – Analog/Digital	EF227A4
	HP L1955 19-inch TFT Flat Panel Display – Analog/Digital	PD974AA
	HP L1940T 19-inch TFT Flat Panel Display – Analog/Digital	EM869AA



Technical Specifications

Unit Environment and Operating Conditions

General Unit Operating Guidelines

- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit is operated within the specified operating range.
- Leave a 10.2-cm (4-in) clearance on front side and power supply side of the computer to permit the required airflow.
- If within an enclosure, the front side should be 100% open. The clearance between the system and the cabinet must be at least 10 mm (0.4 inch) on the sides and top and at least 50-mm (2-inch) clearance in the rear with power supply venting area 100% open per the above bullet.
- Never restrict airflow into the computer by blocking any vents or air intakes.
- Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.

Temperature Range	Operating: 50° to 104 F (10° to 40° C)*	
	Non-operating: -22° to 140° F(-30° to 60° C)	
Relative Humidity Operating: 20% to 85% (non-condensing at an		
	Non-operating: 5% to 90% (non-condensing at ambient)	
Maximum Altitude	Operating: 10,000 ft (3048 m)	
(unpressurized)	Non-operating: 30,000 ft (9144 m)	

***NOTE:** Operating temperature is de-rated 1.0 deg C per 300 m (1000 ft) to 3000 m (10,000 ft) above sea level, no direct sustained sunlight. Maximum rate of change is 10 deg C/Hr. The upper limit may be limited by the type and number of options installed.

Power Supply	240-watt – 80Plus* power supply – Active PFC	
	*This alternate 80% efficient power supply is a requirement for US Energy Star 4.0	
	compliance in conjunction with a select range of processors and modules.	
Operating Voltage Range	90 to 264 VAC	
Rated Voltage Range	100 to 240VAC	
Rated Line Frequency	50/60 Hz	
Operating Line Frequency Range	47 – 63 Hz	
Rated Input Current	5 A @ 90 VAC (3.5 A @ 90 VAC with 80% efficient power supply*)	
Heat Dissipation	Standard power supply:	
·	Typical 340 btu/hr (86 kg-cal/hr)	
	Maximum 1260 btu/hr (397 kg-cal/hr)	
	80% efficient power supply:	
	Typical 273 btu/hr (69 kg-cal/hr)	
	Maximum 1024 btu/hr (258 kg-cal/hr)	
Power Supply Fan	80 mm variable speed fan	
Energy Star 3.0 Compliant	Yes	
Energy Star 4.0 Compliant	Yes	
FEMP Standby Power Compliant	Yes	
(<2W in S5 – Power Off)**		
Power Consumption in ES Mode	< 3 W	



Technical Specifications

– Suspend to RAM (S3) (Instantly Available PC)	
Processor/Cache Memory Power -Down (S3)	< 3 W
Optical Drive Spins Down When Not In Use	TBD
Environmental and Mechanical Engineering Support Center (EMESC) - Intranet Web Site only	http://env-webserver.ccm.cpqcorp.net/EMESC/default.htm

NOTES:

ROM BIOS Information

Key features of the HP BIOS in the rp5700 include:

- Deployment and manageability HP BIOS provides several technologies that help integrate the HP POS system into the enterprise, such as PXE, remote configuration, remote control, and F10 Setup support for 12 languages.
- Stability HP BIOS supports the HP stable product roadmap by releasing only critical BIOS changes to the factory and advanced change notification.
- Security HP BIOS offers a robust and flexible set of security features to help the system administrator secure their systems from removal of sensitive data, and help prevent access by unauthorized users, subversion of OS security policies, removal of hardware, flash of rogue BIOS images, and attacks on BIOS settings.
- Thermal and power management The HP BIOS provides and enables thermal and power management technologies to assist in operating the HP POS system in any enterprise environment.
- Serviceability HP BIOS provides diagnostic and detailed service information.
- Upgrades and recovery HP BIOS provides numerous ways to upgrade HP POS system, including BIOS updates
 from within DOS (Flashlite), BIOS updates from within Windows (HPQFlash, SSM), HP Client Manager, and failsafe recovery. In addition, the HP POS system BIOS Utilities tool enables replicated BIOS setup throughout the
 Enterprise; it is available from within the BIOS software and from the support website.

Additional HP BIOS Features

- Administrator password Also known as the setup password, this helps prevent unauthorized changes to the system
 configuration. If the administrator password is not known, the BIOS version cannot be changed and changes
 cannot be made to BIOS settings using F10 setup or under the OS.
- Advanced Configuration and Power Interface (ACPI) Represents a significant innovation in power and
 configuration management, allowing operating systems and applications to manage power based on activity and
 usage. Provides power conservation features under Windows XP.
- Ability to disable the internal speaker

Other Features	Description	
ACPI-Ready Hardware	Advanced Configuration and Power Management Interface (ACPI).	



^{*} This 80% efficient power supply is a requirement for US Energy Star 4.0 compliance in conjunction with a select range of processors and modules.

^{**} Power consumption in the Off/Apparent Off mode is measured and reported with the network interface controller "Wake on LAN" feature disabled in F10 Setup (default is "enabled").

Technical Specifications

	 Allows the system to wake from a low power mode. Controls system power consumption, making it possible to place individual cards and peripherals in a low-power or powered-off state without affecting other elements of the system.
SMBIOS Ver. 2.4	System Management BIOS, previously known as DMI BIOS, for system management information
Wired for Management Support	Intel-driven, industry-wide initiative to make Intel architecture-based PCs, servers and mobile computers more inherently manageable right out of the box and over the network
Dual-State Power Button	Power button acts as both an on/off button and suspend-to-sleep button

Serviceability Features of System				
Dual Color Power LED on Front of Comp	uter (Indicates Normal Operations and Fac	ult Conditions)		
Diagnostic LED Explanation Table	ED Explanation Table Number of 1-second red LED blinks followed by 2-second pause, then repeats			
	2-processor thermal protection activated 3-processor not installed			
	4-power supply failure			
	5-memory error			
	6-video error			
	7-PCA failure (ROM detected failure prior	r to video)		
	8-invalid ROM, bootblock recover mode			
System/Emergency ROM	Flash ROM	CMOS Battery Holder for easy Replacement		
Flash Recovery with Video	3.3V Aux Power LED on System PCA	 Processor ZIF Socket for easy Upgrade 		
 Over-Temp Warning on Screen (Requires IM Agents) 	Clear Password Jumper	DIMM Connectors for easy Upgrade		
Restore CD	Clear CMOS Jumper	NIC LEDs (integrated) (Green & Amber)		

Serviceability Features of Chassis		
 Dual Color Power LED – To indicate normal operations and fault conditions 	Color coordinated cables and connectors	 Tool-less removal of hood power supply, slot cover, hard drive and optical drive
Front power switch	System memory can be upgraded without removing any internal components	

Eaghire	Description	
Feature	Description	



Technical Specifications

ASF 2.0 support (Alert Standard Format)	Industry-standard specification for network alerting and remote control in operating system-absent environments
Towerable	Product can be oriented as a tower (in addition to desktop orientation)
Drive Self Tests (DPS) DPS Access through F10 Setup during Boot	 Drive Protection System A diagnostic hard drive self test. It scans critical physical components and every sector of the hard drive for physical faults and then reports any faults to the user. Running independently of the operating system, it can be accessed through a Windows-based diagnostics utility or through the computer's setup procedure. It produces an evaluation on whether the hard drive is the source of the problem and needs to be replaced. The system expands on the Self-Monitoring, Analysis, and Reporting Technology (SMART), a continuously running systems diagnostic that alerts the user to certain types of failures.
SMART Technology (Self-Monitoring, Analysis and Reporting Technology) SMART I – Drive Failure Prediction SMART II – Off-Line Data Collection SMART III – Off-Line Read	 Allows hard drives to monitor their own health and to raise flags if imminent failures were predicted Predicts failures before they occur. Tracks fault prediction and failure indication parameters such as re-allocated sector count, spin retry count, calibration retry count By avoiding actual hard drive failures, SMART hard drives act as "insurance" against unplanned user downtime and potential data loss from hard drive failure
Scanning with Defect Reallocation	



Technical Specifications - Audio

High Definition Audio

Type Integrated

High Definition Yes – Realtek ALC262 codec

Stereo Codec

Audio Jacks Line-In (64-K ohm Input Impedance)

Line-Out * (200 ohms Output Impedance, expects at least a 10-K ohm

load)

NOTE: *Internal speaker amplifier is for internal speaker only. External speakers need to be

powered externally.

Sampling 8 kHz – 192 kHz

Wavetable Yes - Uses OS soft wavetable

Syntheses (software)

Analog Audio Yes

Number of Channels Stereo (Left & Right channels)

on Line-Out (mono/stereo)

Internal Audio 1.5 W

Speaker Power

Rating

Internal Speaker Yes
External Speaker Yes

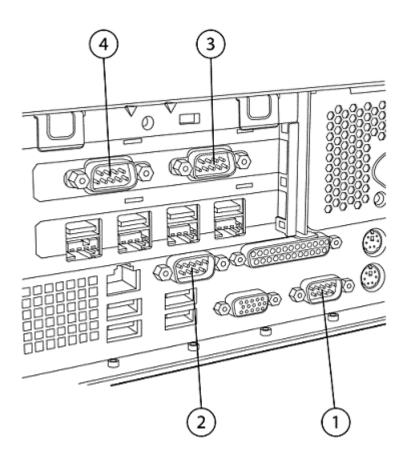
Jack (Line-Out)



Technical Specifications - Communications

Serial Ports

All serial (COM) ports can be custom configured in either standard mode or powered mode. By repositioning the jumpers (provided) on the system board and on the COM port PCI add-in card (some models), each COM power can achieve power on pin 1 or pin 9. The illustration and table below indicate the COM port assignments and voltage supported for each COM port.

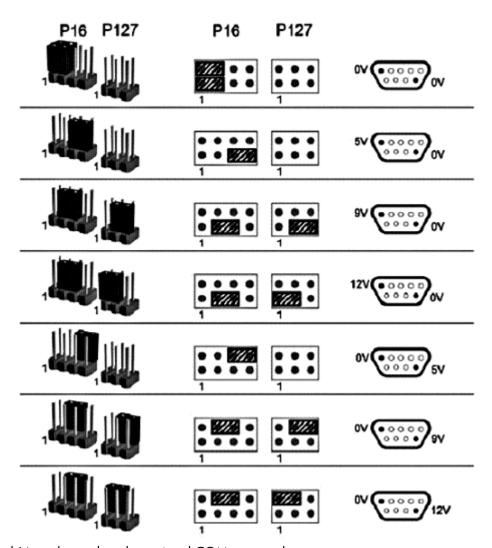


COM port assignment	Description	Standard Mode	+5 V	+9 V	+12V
1	COM1 (yellow)	Yes	Yes	Yes	Yes
2	COM2	Yes	Yes	No	Yes
3	COM3 (some models)	Yes	Yes	No	Yes
4	COM4 (some models)	Yes	Yes	No	Yes

The following illustrations show how to position the jumpers on the system board and on the COM port PCI add-in card (available on some models) to achieve power on pin 1 or pin 9. P16 and P127 are located on the system board behind the COM1 port.



Technical Specifications - Communications



P17 and J4 are located on the optional COM port card

Technical Specifications - Communications

сом 2 - Р17	сом з - J4	сом 4 - Ј5	
		*//** • • *//** • •	0V • · · · · · ov
1		1	5V ••••• 0v
1		1	12V • • • • • 0V
		1	0V • · · · · · · · 5v
		1	0V • • • • • • 12V

Integrated Broadcom 5755 Gigabit Ethernet Connector RJ-45

Controller Broadcom 5755 PCI-Express LAN Controller

Memory Integrated 96Kb frame buffer memory

Data rates 10/100/1000 Mbps

supported

Compliance IEEE 802.1P, 802.1Q, 802.2, 802.3, 802.3AB and 802.3u

compliant, 802.3x flow control

Bus architecture PCI-E

Data path width Single channel, PCI-E

Data transfer mode Bus-master DMA

Hardware FCC, B, CE, TUV- cTUVus Mark Canada and United States, TUV- GS

certifications Mark for European Union

Power requirement 1.33 watts @ +3.3V AUX supply with 5V tolerance

•

Boot ROM support Yes

Network transfer Full-duplex

mode Half-duplex (not available for the 1000BASE-T transceiver)

Network transfer 10BASE-T (half-duplex) 10 Mbps

rate 10BASE-T (full-duplex) 20 Mbps

100BASE-TX (half-duplex) 100 Mbps 100BASE-TX (full-duplex) 200 Mbps 1000BASE-T (full-duplex) 2000 Mbps



2006 Agere PCI **56K International**

SoftModem

Technical Specifications - Communications

Environmental	Operating temperature	32° to 131°F (0° to 55° C)		
	Operating humidity	85% at 131° F (55° C)		
Management capabilities	ASF 2.0, ACPI, WOL an mgmt utility	d DMI 2.0, PXE 2.0, WfM 2.0, Broadcom		
Alerting	ASF 2.0			
Data Transmission	n Technology speeds: 56,000 Kbps maximum downstream data, controllerless			
	compatible modems at serv	y refers to download speeds only and requires er sites. Other conditions may limit modem w a maximum of 53 Kbps during download		
Data Speeds		200/28,800/26,400/21,600/19,200/ 9,600/7,200/4,800/2,400/1,200/300		
Data Standards	ITU-T V.90, ITU-T, ITU-T V.3 212A, and Bell 103	4, V.44, V.42, V.42bis21, V.32bis, Bell		
Fax Speeds	14,400/12,000/9,600/7	,200/4,800/2,400/1,200/300 b/s		
Fax Mode Capabilities	ITU-T T.31 class 1 FAX, V.	17, V.29, V.27ter, and V.21 Channel 2		

Error Correction

and Data Compression

Power Management

Upgradeability

Video

Other

TIA/EIA 602 standard AT command set

Integrated DTE interface with speeds of up to 115.2 Kbps, parallel

requirements and PC 2001 requirements

Driver upgradeable for future enhancements

16550a UART-compatible interface

ITU-T V.80 video ready interface

V.44, 42bis, V.42 and MNP2-5

Optional ring wakeup signal 32° to 158° F (0° to 70° C)

Operating **Temperature**

Operating Humidity 20% to 90%, non-condensing

Power Requires a 3.3-V auxiliary power rail on PCI bus

Uses only one PCI load (i.e., one grant/request pair), one shared IRQ,

ACPI; PPMI 1.1 and wake support with PME and Vaux; meets PCI 2.3

one electrical load

Agere Systems SV92PL – Integrated PCI interface with 5-V tolerant buffers Chipset

and CardBus support

Complies with PCI low profile specifications–6.7 x 2.3 in (17.0 x 5.8 cm) **Dimensions** (L X H)

and supports high- and low-profile brackets

Connection Single RJ-11 connector



HP rp5700 Point of Sale (POS) System

Technical Specifications - Communications

Other Features Digital line protection, call progress monitoring via on-board piezo

device, support for high profile and low profile brackets, PnP ID support

Safety UL recognized to UL 1950, 3rd edition (U.S. and Canada); IEC 950

(TUV, NEMKO, DEMKO, SEMKO); CE Mark, EC 950 (TUV, NEMKO,

DEMKO, SEMKO, CE mark

EMC FCC Part 15, IC ES003, EN 55022, 3rd edition, EN 55024, annex A,

EN 61000-4-6, EN 61000-4-8

Telecom FCC Part 68, IC-CS-03 (Canada); Worldwide PTT approvals

Not available in Korea or the Republic of South Africa.

Other Bare PCB material compliant to 94V-0 or better (marked as such)

PC 2001 compliant, PCI version 2.3, WHQL approved; ACPI compliant



Technical Specifications - Graphics

Integrated Graphics Graphic Controller Media Accelerator 3000

Integrated GMA 3000

Bus type

Integrated

RAMDAC

Single 400 MHz integrated

Memory

UMA with DVMT 4.0 support for frame buffer sizes 8-256 MB

Controller clock

speed

667 MHz

Overlay planes

One 16-bit video overlay plane

Maximum Color

Depth

32 bpp

Maximum vertical

refresh rate

85 Hz

Multi-display

Support

One VGA and one DVI-D in conjunction with an ADD2 card, clone and extended desktop modes are enabled by the addition of the HP ADD2

DVI-D Adapter

Support

Resolutions Supported¹

Graphics/Video API DirectX 9.0c, WGF 1.0, DirectX VA 2.0, Shader Model 3.0, OpenGL 1.5

Resolution	Maximum Refresh Rate (Hz)		
	Analog Monitor	Digital Monitor	
640 x 480	85	60	
800 x 600	85	60	
1024 x 768	85	60	
1280 x 1024	85	60	
1600 x 1200	85	60	
1920 x 1080	85	60-R ²	
1920 x 1200	85	60-R ²	
1920 x 1440	60	N/A	

NOTES:

Other resolutions and refresh rates may be selectable but are not recommended.

ADD2 SDVO DVI-I/TV-Out Adapter

Form Factor

Low-profile card (full-height (ATX) and low-profile brackets included in

kit)

Dual head support

Yes

Host Interface Connector

Mechanically compliant with PCI-e standard

Complies with the Intel ADD2 and Intel Serial Digital Video Output (SDVO) specifications



¹ Modes listed are supported with a single active display. The supported mode list for multiple active displays is a subset of this list. Not all modes will support video playback and some supported modes may use software MC (motion compensation) rather than hardware MC. Not all modes will support 3D acceleration depending on the system configuration (e.g., resolution selected, size of frame buffer, number of installed memory modules, etc.).

²-R denotes reduced blanking timings (some digital monitors may not support reduced blanking timings).

Technical Specifications - Graphics

Dot Clock Display Modes 165 MHz maximum

Supports display modes that require up to 165-MHz bandwidth on the link, as shown in the following table.

Resolutions Supported

Resolutions	60-Hz LCD	60-Hz	75-Hz	85-Hz
Blanking	5% reduced	GTF	GTF	GTF
640 x 480 VGA	Yes	Yes	Yes	Yes
800 x 600 SVGA	Yes	Yes	Yes	Yes
1024 x 768 XGA	Yes	Yes	Yes	Yes
1280 x 1024 SXGA	Yes	Yes	No	No
1600 x 1200 UXGA	Yes	Yes	No	No

Color Depth

All modes support 8-bpp, 16-bpp, and 24-bpp color depths (up to 16.7 million colors)



Technical Specifications - Hard Drives

Serial ATA 1.5-Gb/s 250 GB Hard Drives (7200

rpm)

Capacity 250,059,350,016 bytes

Height 1 in (2.6 cm)

Width Media diameter: 3.5 in (8.9 cm)

Physical size: 4 in (10.2 cm)

Interface Serial ATA (3.0 Gb/s)

Synchronous Up to 3 Gb/s **Transfer Rate**

(Maximum)

Buffer 8 MB

Seek Time (typical
reads, includes controller
overhead, includingSingle Track
Average1.0 ms8.5 msFull-Stroke18 ms

settling)

Rotational Speed 7,200 rpm

Operating 41° to 131°F (5° to 55°C)

Temperature

Logical Blocks

160-GB Capacity 163,928,604,672 bytes

Height 1 in (2.54 cm)

Width Media diameter: 3.5 in (8.9.x cm)

488,397,168

Physical size: 4 in (10.2 cm)

Interface Serial ATA (3.0 Gb/s)

Synchronous Up to 3 Gb/s

Transfer Rate (Maximum)

Buffer 8 MB

Seek Time (typical
reads, includes controller
overhead, including
settling)Single Track
Average
Full-Stroke0.9 ms
9.3 msFull-Stroke18 ms

Rotational Speed 7,200 rpm **Logical Blocks** 320,173,056

Operating 41° to 131°F (5° to 55°C)

Temperature

80-GB Capacity 80,026,361,856 bytes

Height 1 in (2.54 cm)

Width Media diameter: 3.5 in (8.9.x cm)

Physical size: 4 in (10.2 cm)

Interface Serial ATA (3.0 Gb/s)



Technical Specifications - Hard Drives

Synchronous Up to 3 Gb/s **Transfer Rate**

(Maximum)

Buffer 8 MB

Seek Time (typical
reads, includes controller
overhead, includingSingle Track
Average2.0 ms9.3 msFull-Stroke21 ms

settling)

Rotational Speed 7,200 rpm

Logical Blocks 156,301,488

Operating 41° to 131° F (5° to 55° C)

Temperature



Technical Specifications - Input/Output Devices

, , , , ,	_, , ,		10/ 105 10/ 107 100/
USB Keyboard	Physical characteristics	Keys	104, 105, 106, 107, 109 layout (depending upon country)
		Dimensions (L \times W \times H)	18.0 x 6.4 x 0.98 in (45.8 x 16.3 x 2.5 cm)
		Weight	2 lb (0.9 kg) minimum
	Electrical	Operating voltage	+ 5VDC ± 5%
		Power consumption	50-mA maximum (with three LEDs ON)
		System interface	USB Type A plug connector
		ESD	CE level 4, 15-kV air discharge
		EMI – RFI	Conforms to FCC rules for a Class B computing device
		Microsoft PC 99 – 2001	Functionally compliant
	Mechanical	Languages	38 available
		Keycaps	Low-profile design
		Switch actuation	55-g nominal peak force with tactile feedback
		Switch life	20 million keystrokes (using Hasco modified tester)
		Switch type	Contamination-resistant switch membrane
		Key-leveling mechanisms	For all double-wide and greater-length keys
		Cable length	6 ft (1.8 m)
		Microsoft PC 99 – 2001	Mechanically compliant
		Acoustics	43-dBA maximum sound pressure level
	Environmental	Operating temperature	50° to 122° F (10° to 50° C)
		Non-operating temperature	-22° to 140° F (-30° to 60° C)
		Operating humidity	10% to 90% (non-condensing at ambient)
		Non-operating humidity	20% to 80% (non-condensing at ambient)
		Operating shock	40 g, six surfaces
		Non-operating shock	80 g, six surfaces
		Operating vibration	2-g peak acceleration
		Non-operating vibration	4-g peak acceleration
		Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence
		Drop (in box)	42 in (107 cm) on concrete, 16-drop sequence

Technical Specifications - Input/Output Devices

UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, MIC **Approvals** ANSI HFS 100, ISO 9241-4, and TUVGS **Ergonomic** compliance

PS/2 Keyboard **Physical** 104, 105, 106, 107, 109 layout Keys characteristics (depending upon country)

> $18.0 \times 6.4 \times 0.98$ in $(45.8 \times 16.3 \times 2.5 \text{ cm})$ Dimensions (L \times W \times

H)

Weight 2 lb (0.9 kg) minimum **Electrical** + 5VDC ± 5%

Operating voltage **Power consumption** 50-mA maximum (with three LEDs ON)

> **System interface** PS/2 6-pin mini din connector **ESD** CE level 4, 15-kV air discharge

EMI - RFI Conforms to FCC rules for a Class B

computing device

Functionally compliant Microsoft PC 99 -2001

Mechanical Languages 38 available

Keycaps Low-profile design

Switch actuation 55-g nominal peak force with tactile feedback

Switch life 20 million keystrokes (using Hasco modified

tester)

Switch type Contamination-resistant switch membrane **Key-leveling** For all double-wide and greater-length keys

mechanisms

Cable length 6 ft (1.8 m)

Microsoft PC 99 -Mechanically compliant

2001

Acoustics

43-dBA maximum sound pressure level

Environmental Operating 50° to 122° F (10° to 50° C)

temperature

Non-operating -22° to 140° F (-30° to 60° C) temperature

Operating humidity 10% to 90% (non-condensing at ambient) 20% to 80% (non-condensing at ambient) Non-operating

humidity 40 g, six surfaces Operating shock

Non-operating 80 q, six surfaces shock

Operating vibration 2-g peak acceleration



Technical Specifications - Input/Output Devices

Non-operating vibration

4-g peak acceleration

Drop (out of box)

26 in (66 cm) on carpet, six-drop sequence

Drop (in box)

42 in (107 cm) on concrete, 16-drop

sequence

Approvals Ergonomic compliance UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, MIC

ANSI HFS 100, ISO 9241-4, and TUVGS

HP PS/2 Scroll Mouse

Dimensions Weight

 $1.5 \times 2.5 \times 4.6$ in $(3.8 \times 6.3 \times 11.6$ cm)

4.44 oz (126 g)

Environmental Operating

50° to 122° F (10° to 50° C)

temperature

Non-operating temperature

-22° to 140° F (-30° to 60° C)

Operating humidity

Operating shock

20% to 80% (non-condensing at ambient)

10% to 90% (non-condensing at ambient)

Non-operating

humidity

40 g, 6 surfaces

Non-operating

shock

80 g, 6 surfaces

Operating vibration

2 g peak acceleration

Non-operating

vibration

4 g peak acceleration

Drop (out-of-box) 26 in (66 cm) on carpet, 6-drop sequence **Drop** (out-of-box) 1 m on asphalt tile over concrete, 6-drop

sequence

5 VDC ± 10%

Electrical Operating voltage

> 15 mA Power consumption

System consumption PS/2 mini-din connector

ESD CE level 4, 15 kV air discharge **EMI-RFI** Conforms to FCC rules for a Class B

computing device

Microsoft

PC99 - 2001

Functionally compliant

Mechanical 400 ± 20% DPI Resolution

> 10 in/s (25.4 cm/s) maximumTracking speed 100 in/s/s (2.54 m/s/s) Acceleration

Switch actuation 65 g nominal peak force

Switch life 1,000,000 operations (using Hasco

modified tester)

HP rp5700 Point of Sale (POS) System

Technical Specifications - Input/Output Devices

Switch type Low force micro-switches

Tracking mechanism 155 mi (250 km) at average speed of 10

in/s

Cable length 6 ft (1.8 m)

Microsoft PC99 -

2001

Mechanically compliant

Scroll wheel Width 8 mm

life

Diameter 0.99 in (25.2 mm)

Maximum rotation

speed

30 mm/s

Switch type Light force micro-switch Switch life 1 million operations

Mechanical life Minimum 200,000 revolutions

Regulatory approvals

UL, CSA, FCC, CE Mark, TUV, TUV GS, **Compliant**

VCCI, BSMI, C-Tick, MIC

USB Scroll Mouse Environmental

Operating

temperature

Non-operating temperature

-22° to 140° F (-30° to 60° C)

50° to 122° F (10° to 50° C)

Operating humidity

Non-operating

humidity

10% to 90% (non-condensing at ambient) 20% to 80% (non-condensing at ambient)

40 g, 6 surfaces

Operating shock Non-operating

shock

80 g, 6 surfaces

Operating vibration 2 g peak acceleration

Non-operating

vibration

4 a peak acceleration

26 in (66 cm) on carpet, 6-drop sequence **Drop** (out-of-box)

1 m on asphalt tile over concrete, 6-drop

sequence

Electrical 5 VDC ± 10% **Operating voltage**

> 15 mA **Power consumption**

System consumption USB Type-A plug connector **ESD** CE level 4, 15 kV air discharge

EMI-RFI Conforms to FCC rules for a Class B

computing device

Microsoft Functionally compliant

PC99 - 2001

Mechanical Resolution 400 ± 20% DPI

Technical Specifications - Input/Output Devices

Tracking speed 10 in/s maximum

Acceleration 100 in/s

Switch actuation 65 g nominal peak force

Switch life 1,000,000 operations (using Hasco

modified tester)

Low force micro-switches Switch type

Tracking mechanism 155 mi (250 km) at average speed of 10

in/s

8 mm

Cable length 6 ft (1.8 m)

Microsoft PC99 -

2001

life

Mechanically compliant

Scroll wheel Width

> **Diameter** 0.99 in (25.2 mm)

Maximum rotation

speed

30 mm/s

Switch type Light force micro-switch Switch life 1 million operations

Mechanical life Minimum 200,000 revolutions

Regulatory approvals

Compliant

UL, CSA, FCC, CE Mark, TUV, TUV GS,

VCCI, BSMI, C-Tick, MIC

USB Optical Scroll Mouse

Dimensions ($H \times L \times$

 $1.5 \times 4.5 \times 2.5$ in $(3.8 \times 11.6 \times 6.3 \text{ cm})$

W)

Weight 0.27 lb (0.12 kg) Cable length 72.8 in (185 cm)

Technical Specifications - Optical Storage

SATA	DVD+	-/-RW
LightS	cribe	Drive

Height 5.25-inch, half-height, tray-load **Orientation** Either horizontal or vertical

Interface type SATA/ATAPI

Disc capacity 8.5 GB DL or 4.7 GB standard

Dimensions (HxWxD) $5.9 \times 1.7 \times 8.0$ in $(15.0 \times 4.4 \times 20.3$ cm)

Weight (maximum) 2.6 lb (1.2 kg)

Write speeds **DVD+R** Up to 16X

> **DVD+RW** Up to 8X **DVD+R DL** Up to 8X **DVD-R DL** Up to 4X **DVD-R** Up to 16X **DVD-RW** Up to 6X CD-R Up to 48X **CD-RW** Up to 32X **DVD-RAM** Up to 4X

Read speeds

DVD+RW, DVD-RW, Up to 8X

DVD+R DL, DVD-R DL

DVD-ROM, DVD+R, Up to 16X

DVD-R

Full Stroke

CD-ROM, CD-R Up to 48X **CD-RW** Up to 32X

Access time

(typical reads, including

settling)

Random DVD: < 130 ms (typical), CD: < 120 ms

(typical)

Power Source SATA DC power receptacle

> **DC Power** $5 \text{ VDC} \pm 5\%-100 \text{ mV}$ ripple p-p Requirement 12 VDC ± 5%-200 mV ripple p-p

DC Current 5 VDC (< 1000 mA typical, < 1600 mA

maximum)

12 VDC (< 600 mA typical, < 1400 mA

DVD: < 240 ms (seek), CD: < 200 ms (seek)

maximum)

Environmental conditions (operating -

non-condensing)

Temperature

41° to 122° F (5° to 50° C)

Relative humidity 10% to 90%

Maximum wet bulb

86° F (30° C)

temperature

SATA DVD-ROM Drive

Height 5.25-inch, half-height, tray-load **Orientation** Either horizontal or vertical

Interface type SATA/ATAPI

Single layer: Up to 4.7 GB (6 times capacity of CD-ROM) **Disc capacity**



Technical Specifications - Optical Storage

Double layer: Up to 8.5 GB (12 times capacity of CD-ROM)

Dimensions (W x H x $5.9 \times 1.7 \times 8.0$ in $(15.0 \times 4.4 \times 20.3 \text{ cm})$

D)

Weight (max) 2.6 lb (1.2 kg)

Read speeds DVD+R/-R/+RW/ Up to 8X

-RW/+R DL /-R DL

DVD-ROM Up to 16X **DVD-RAM** Up to 4X CD-ROM, CD-R Up to 48X **CD-RW** Up to 32X

Removable Storage

Media (READ ONLY – drive is not write capable)

- Media

Compatibility – DVD-**ROM**

CD-ROM CD-R

CD-RW

DVD-ROM DVD-ROM DL DVD-RAM DVD+R DVD+R DL DVD+RW DVD-R

DVD-RW DVD-R DL

Access times

Random

DVD: < 140 ms (typical), CD: < 125 ms

(typical)

(typical reads, including

setting)

Full Stroke DVD: < 250 ms (seek), CD: < 210 ms (seek)

Cache Buffer 2 MB (minimum)

Data Transfer Modes ATA PIO mode 4 (16.7 MB/s); ATA Multi-

word DMA mode 2 (16.7 MB/s); ATA UltraDMA Mode 3 (44.4 MB/s -default)

Power Source SATA DC power receptacle

> **DC Power** $5 \text{ VDC} \pm 5\%-100 \text{ mV ripple p-p}$ Requirement 12 VDC ± 5%-200 mV ripple p-p

DC Current 5 VDC (< 1000 mA typical, < 1600 mA

maximum)

12 VDC (< 600 mA typical, < 1400 mA

maximum)

41° to 122° F (5° to 50° C) **Environmental Temperature**

(all conditions noncondensing)

Relative Humidity

10% to 90%

Maximum Wet Bulb

86° F (30° C)

Temperature



Technical Specifications - Environmental Data

Eco-Label Certifications and declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- US Energy Star
- US Federal Energy Management Program (FEMP)
- IT ECO declaration
- Select U.S. configurations of the rp5700 Point of Sale System are in compliance with the IEEE 1680 (EPEAT) standard at the GOLD level (see http://www.epeat.net)
- Korea Eco-label
- Japan PC Green label*
- CECP Certification (China Energy Conservation Program)
- * This product conforms to the examination standards (2003 version) under JEITA's 'PC Green Label System.'

Energy Consumption

(in accordance with US Energy Star test method)

	115 VAC, 60 Hz	230 VAC, 50 Hz	100 VAC, 60 Hz
Normal Operation	62.9 W	61.8 W	63.1 W
Sleep (Energy Star low power mode)	3.1 W	3.4 W	3 W
Off	1.06 W	1.35 W	1.04 W

Heat Dissipation*

	115 VAC, 60 Hz	230 VAC, 50 Hz	100 VAC, 60 Hz
Normal Operation	214.614 BTU/hr	210.861 BTU/hr	215.297 BTU/hr
Sleep	10.577 BTU/hr	11.6 BTU/hr	10.236 BTU/hr
Off	3.616 BTU/hr	4.606 BTU/hr	3.548 BTU/hr

^{*} Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

This product is in compliance with US executive order 13221, WOL (wake on LAN) disabled.

Declared Noise Emissions

(in accordance with ISO 7779 and ISO 9296)

	Sound Power	Sound Pressure
System Fan Off	(L _{Wad} , bels)	(L _{pAm} , decibels)
Idle	3.61	28.2 dB(A)
Fixed Disk (random writes)	3.8	30.2 dB(A)
Optical Drive (sequential reads)	4.9	44.3 dB(A)

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product include:

- Higher endurance capacitors for longer life.
- Higher temperature rated capacitors for longer life and reliability
- Improved gold plating on connectors, ports, and add-in cards for longer life and reliability
- Over current protection using polyfuses for USB, serial, PS/2, and video ports for improved reliability and hardware protection
- On-board thermal sensors for improved reliability and thermal protection
- More stringent thermal and humidity testing inside a special cabinet to simulate a



Technical Specifications - Environmental Data

thermally harsh POS environment

Spare parts are available throughout the warranty period and or for up to 5 years after the end of production.

Batteries

This product complies with ISO standards:

- EU Directive 91/157/EEC
- EU Directive 93/86/EEC
- EU Directive 98/101/EEC

Batteries used in the product do not contain:

- Mercury greater the 5 ppm by weight
- Cadmium greater than 10 ppm by weight
- Lead greater than 15 ppm by weight.

Battery size: CR2032 (coin cell)

Battery type: Lithium/Manganese Dioxide

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive – 2002/95/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC.
- The rp5700 Point of Sale System is in compliance with the IEEE 1680 (EPEAT) standard at the Silver level (see http://www.epeat.net)
- Select U.S. configurations of the rp5700 Point of Sale System are in compliance with the IEEE 1680 (EPEAT) standard at the GOLD level (see http://www.epeat.net)
- Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.
- The rp5700 Point of Sale System contains an average of 10% post-consumer recycled plastic.
- This product is >91% recyclable when properly disposed of at end of life.

Packaging Materials Corrugated Paper 1407 g

 EPE Foam
 290 g

 LDPE Bag
 63.5 g

 HIPS Cushion
 127.01 g

- The EPE foam packaging material is made from no post consumer recycled content.
- The corrugated paper packaging materials contain at least 25% post consumer recycled content.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at

http://www.hp.com/hpinfo/globalcitizenship/environment/



Technical Specifications - Environmental Data

supplychain/gen_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.



HP rp5700 Point of Sale (POS) System

Technical Specifications - Environmental Data

Hewlett-Packard Corporate Environmental

Information

For more information about HP's commitment to the environment:

Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Eco-label certifications

http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html

Certain Windows Vista product features require advanced or additional hardware. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit http://www.windowsvista.com/upgradeadvisor. For Windows Vista system requirements, visit http://www.windowsvista.com/systemrequirements.

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