# rp5800 Retail System

A flexible, retail-hardened POS platform with the performance and longevity you need to run your business.



HP recommends Windows®.

## Results driven

Trust HP's technology leadership to deliver a high performance point-of-sale (POS) system. A customizable solution, the HP rp5800 Retail System is a high-quality, robust, long-lifecycle POS platform that's designed specifically for use in retail situations. The advanced performance and functionality features enable retailers of all sizes to standardize on one system to run their mission critical operations. Put the HP rp5800 to use on the retail floor as a robust point-of-sale solution, within a kiosk enclosure, as part of a digital signage display, and behind the scenes as a powerful back-office work station.

## Flexible, built to last

Building on the platform strengths of the HP rp5700, the HP rp5800 Retail System is expandable and highly configurable allowing for flexibility and easy implementation within your existing ecosystem. Available with a choice of operating systems, Intel® processors, mass storage, removable media, and memory the HP rp5800 has a flexible design that you can customize to fit your needs. With extra memory slots, multiple PCI Express (PCIe) slots, 3.5"/5.25" bays, and optional optical drives, the HP rp5800 has a flexible design that you can customize to fit your retail environment. Choose the right removable media for you or add a second hard drive with the internal and external bays.

The sturdy HP rp5800 chassis is designed with reliable, retail-hardened engineering that helps reduce downtime and keep your store running smoothly. We've engineered in oversized cooling that operates in an ambient 40° C environment (optional 50°C kit available, configuration limitations apply) and high-endurance temperature-rated capacitors that help resist heat to last longer. You can rely on your system to have a longer useful life, minimizing disruptions, avoiding long-term equipment planning, and reducing the complexity of rollouts.

## Designed with the environment in mind

The HP rp5800 includes select components designed for energy efficiency such as 2nd generation Intel® Core™ i3, i5, and i7 processors[1], and an 90% efficient power supply that draw less power while in operation. Intel® vPro™ [2] processors include hardware-assisted remote shutdown, wake-up, and update which helps to reduce energy and IT costs by controlling your POS systems from a remote location so you don't need an IT person in each store. Also included, HP Power Assistant provides an easy-to-use desktop application so you can control energy usage. ENERGY STAR® models available.

## Design wise

The HP rp5800 Retail System has 3 drive bays to allow you to take advantage of the latest technology while still working within your existing ecosystem. The added peace of mind you'll get with RAID support and available solid state drive configurations make this a stable, secure point-of-sale platform for your retail infrastructure.

Maximize space by positioning the system on the cash wrap or mounting it vertically or horizontally beneath your work space. Keep it together with optional HP Integration Assembly components designed to house the HP rp5800 Retail System along with key POS peripherals in one integrated solution to help maximize counter space and efficiency.

## Only HP

HP provides a standard three-year limited warranty on all hardware components. You can also select from a range of HP Care Pack Services to extend your protection beyond the standard warranties[4]. Customize your solution with a full suite of HP peripherals[5]. HP peripherals are retail hardened and designed to work together with your HP POS system. Trust HP to support your peripheral needs and provide a seamless, integrated experience.

For more information about the HP rp5800 Point of Sale System, please visit www.hp.com/go/POS.

## SPECIFICATIONS

| | |
|---|---|
| **Operating system** | **Preinstalled**<br>Genuine Windows® 7 Professional 32-bit*;<br>Genuine Windows® 7 Professional 64-bit*;<br>Windows Embedded POSReady 2009,<br>FreeDOS |
| **Processor**[1, 2, 3] | Intel® 2nd generation Core™ i3, i5, i7; select processors include Intel vPro™ Technology; Intel Pentium Dual Core G850 |
| **Chipset** | Intel Q67 Express |
| **Memory**[6] | Four DIMMs, dual-channel; Standard non-ECC DDR3 PC3-10600 (1333 MHz) and PC3-8500 (1066 MHz) memory; supports up to 16 GB.<br>NOTE: Dual channel memory configurations supported for enhanced performance. When memory is labeled DDR 800 MHz, it will clock down to run at 667 MHz system speed. |
| **Internal storage**[7] | 250, 500 GB, or 1 TB SATA 3.0GB/s hard drive (7200 rpm); RAID 0, 1 (available HP factory); available 80 GB or 160 GB Solid State Drive |
| **Removable storage**[8,9] | HP DVD-ROM Drive, HP SuperMulti DVD Writer Drive, Blu-ray Writer Drive; optional HP 22-n-1 Medial Card Reader |
| **Expansion bays** | Two internal 3.5-inch HDD, one external 5.25-inch optical; |
| **Expansion slots** | One half-height PCI-e x1, and one half-height PCI-e x16; Choose between a PCI riser providing two (2) full-height PCI slots or a PCI-e riser providing two full-height PCI-e x1 slots. |
| **Graphics** | Integrated Intel HD[10] Graphics |
| **Audio/visual** | High Definition[10] Audio with Realtek ALC261 codec (all ports are stereo), line-out and line-in rear ports; 1 VGA port (Dual-display via optional card), internal speaker |
| **Communications**[11] | Integrated Intel 82579LM GbE, optional HP 802.11 b/g/n Wireless available |
| **Ports and connectors** | Two front and five rear USB 2.0, one 24V poweredUSB, two power-configurable RS-232 serial/COM, two PS/2, one each: RJ-45, Cash Drawer, VGA, DisplayPort, line in and line out; available on some models: up to six additional USB + power, up to two additional RS-232 serial/COM; available as an option: parallel, eSATA, and other select PCI-e x1 cards. |
| **Power supply** | 90% efficient Active Power Factor Correcting (PFC) 240-watt; ENERGY STAR 5.0 compliant |
| **Input device(s)** | PS/2 or USB keyboard and PS/2, USB, or optical scroll mouse |
| **Software** | HP ProtectTools Security Suite[12], Norton Internet Security 2011 [13], PDF Complete, Microsoft Office 2010 Starter[14], HP Power Assistant v2.0[15] (select models), Roxio Creator Business (select models); not all software is available on all models. |
| **Security** | Kensington lock support (optional), security loop (standard), keyed security lock (optional), integrated TPM 1.2 (TPM module disabled where restricted by law.) |
| **Dimensions HxWxD** | 3.95 x 13.3 x 14.9 in (100 x 338 x 379 mm) |
| **Weight** | 15.08 lb (6.84 kg) (system) |
| **Warranty** | Standard limited 3/3/3 parts and labor and on-site service, two-year manufactured lifecycle but support available up to five additional years on parts, OS support for 90 days; quick restore solution included (requires external optical drive/not included) Optional HP Care Pack Services are extended service contracts which go beyond your standard warranties[4]. For more details visit: http://www.hp.com/go/lookuptool. |

16X/48X DVD-ROM or HP 16X
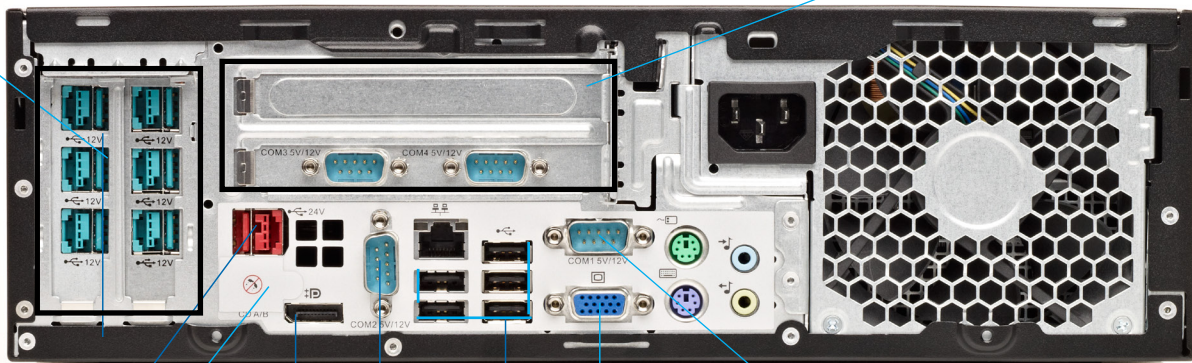SATA SuperMulti Drive (DVD+/RW)
(chassis blank shown)

LED indicator lights
for power, NIC, and
diagnostics

(2) USB 2.0 ports with sliding door
for security

(2) half-height slots; Choose from a variety of cards to fill
these slots. Shown here populated by 2 riser cards provid-
ing 6 USB ports.

PCI riser or PCI-e riser installed provides (2)
full-height slots; shown here populated with
RS232 serial ports.

24 Volt USB
+ PWR port

Cash Draw-
er Port

DisplayPort

RS232 serial COM2 port

(5) USB 2.0 ports

VGA port

RS232 serial
COM1 port

HP rp5800 POS System shown with Integra-
tion Assembly (4 parts, each sold sepa-
rately) and assorted peripherals, including:
barcode scanner and mount, cash drawer,
printer, keyboard with MSR, 15" diagonal
employee-facing touch display, and a 15"
diagonal customer facing display (left) or
customer facing 2-line display (right).

*Not all features are in all editions of Windows 7. Systems may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

1.64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your HW and SW configurations. See www.intel.com/info/em64t.

2. vPro Technology - Some functionality of this technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility with future "virtual appliances" and Microsoft Windows 7 operating system is yet to be determined.

3. Dual/Triple/Quad Core is designed to improve performance of multithreaded software products and hardware-aware multitasking operating systems and may require appropriate operating system software for full benefit. Not all customers or software applications will necessarily benefit from use of this technology. Intel's numbering is not a measurement of higher performance.

4. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at www.hp.com/hps/carepack. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/carepack.

5. Sold separately or as an optional feature.

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

7. For hard drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less.  Up to 16 GB (for Windows 7) of system disk is reserved for system recovery software.

8. Don't copy copyright-protected materials. Actual speeds may vary. Double Layer is a new technology. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2 Double Sided-Version 1.0 Media. LightScribe creates a monochrome image. LightScribe media required and sold separately. Actual speeds may vary.

9. HP 16X SATA Blu-ray Writer data transfer rates up to 6,000 KB/s (CD) and 16,600 KB/s (DVD). Blu-Ray contains new technologies; certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played. Don't copy copyright-protected materials.

10. HD content required to view HD images.

11. Wireless access point and Internet service required and sold separately. Availability of public wireless access points is limited.

12. HP ProtectTools requires Microsoft Windows.

13. 60 day trial period.  Internet access required to receive updates.  First update included.  Subscription required for updates thereafter. This software is licensed to you by the manufacturer under the terms of its end user license agreement.

14. Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and http://www.office.com.

15. HP Power Assistant may not be available in all regions. Use of this application is not required.