

HP RP5 Retail System, Model 5810



The platform for every retail detail



Get the flexibility and expandability to control everything from the store floor to the back office with the HP RP5 Retail System, Model 5810, an all-around high-performer that stands up to the rigors of a retail environment so you can focus on making sales.

Powered for performance

Use the HP RP5, Model 5810 to excel in even the most demanding environments with your choice of operating systems, 4th generation Intel® Core™ processors,¹ and storage to help you take on every retail challenge.

Customize your perfect fit

Tailor the HP RP5, Model 5810 to your specific needs with maximum port connectivity that supports a wide range of retail peripherals,² and add-ons that deliver true flexibility.

Management and security made easy

POS doesn't need to be complicated. The HP RP5, Model 5810 allows you to enjoy simple, low-cost management with built-in features that help ensure the security of your customer data and terminals.

Trust your hardware

In the demanding world of retail, you can't afford to slow down. The HP RP5, Model 5810 delivers impressive retail-hardened durability and an oversized cooling system to ensure you don't miss a beat.

Environmentally responsible

Reduce cooling and energy costs with the energy-efficient ENERGY STAR® Qualified and EPEAT® Gold registered¹⁹ design that delivers extremely low power consumption. Oversized cooling helps enable the longer lifecycle and delivers more continuous performance in an ambient 40°C environment vs. an average ambient 35°C environment.

Backed by the best

Get deployment flexibility with a five-year product manufacturing lifecycle and award-winning HP service and support. A three-year limited warranty comes standard, and additional coverage up to five years is available with optional HP Care Pack Services.³

HP RP5 Retail System, Model 5810 - Specifications

Operating Systems	Pre-installed: Windows 8.1 Pro 64-bit ⁴ Windows Embedded 8.1 Industry Pro Retail 64-bit ⁴ Windows 7 Professional 32-bit or 64-bit (available through downgrade rights from Windows 8.1 Pro) ^{5,6} Microsoft Windows Embedded POSReady 7 32-bit or 64-bit FreeDOS 2.0 Certified: Novell SUSE Linux Enterprise Desktop 11
Processors¹	Intel® Core™ i7-4770S supports Intel vPro Technology, with Intel HD Graphics 4600; Up to 3.9GHz Max. Turbo Frequency (3.1 GHz Base Frequency, 8 MB cache, 4 cores) Intel® Core™ i5-4570S supports Intel vPro Technology, with Intel HD Graphics 4600; Up to 3.6GHz Max. Turbo Frequency (2.9 GHz Base Frequency, 6 MB cache, 4 cores) Intel® Core™ i3-4150 with Intel HD Graphics 4400 (3.5 GHz, 3 MB cache, 2 cores) Intel® Core™ i3-4330 with Intel HD Graphics 4600 (3.5 GHz, 4 MB cache, 2 cores) Intel® Pentium® G3420 with Intel HD Graphics (3.2 GHz, 3 MB cache, 2 cores) Intel® Celeron™ G1820 with Intel HD Graphics (2.7 GHz, 2 MB cache, 2 cores)
Chipset	Intel® Q87 Express
Memory⁷	Up to 32GB DDR3 SDRAM, (4) DIMM slots, and dual channel memory support.
Internal storage⁸	Two internal 3.5" drive bays, one external 5.25" drive bay**. Available HDDs: 2TB, 1TB, 500GB and SSDs: 256GB, 128GB, 64GB, 32GB ¹⁷ , Optional: 128GB M.2 PCIe SSD, 128GB SATA 2.5 w/ca Opal2 SED SSD, 256GB SATA 2.5 w/ca Opal2 SED SSD, 500GB 7200 RPM SATA 2.5 w/ca SED HDD
Optical Drive⁹	SATA DVD-ROM
Expansion Slots	<ul style="list-style-type: none"> • 1 half-height PCIe x16 (wired as x16) • 1 half-height PCIe x16 (wired as x4) • 2 full-height PCI x1 or PCIe x1
Network interface^{10,11,12}	Intel I217LM GbE (integrated) Intel I210-T1 PCIe GbE (optional) Intel 7260 802.11 a/b/g/n wireless PCIe (optional)
External I/O ports	5 USB 2.0, 2 USB 3.0, 1 24V USB, 2 RS-232 powered-configurable serial (5V/12V), 1 PS/2 keyboard, 1 PS/2 mouse, 1 VGA, 1 DisplayPort 1.2, 1 audio in, 1 audio out, 1 RJ-45, 1 RJ-12 (cash drawer). Additional optional ports: 1 parallel, 1 eSATA, up to 6 12V USB, additional DisplayPort 1.2, and 2 RS-232 powered-configurable serial ports (5V/12) via serial card
Graphics Card^{13,14}	Integrated: Intel HD Graphics or Intel HD Graphics 4600, dependent upon processor selection. Discrete: NVIDIA NVS 315 (1 GB), NVIDIA NVS 510 (2 GB)
Audio	HD audio with Realtek ALC221 codec (all ports are stereo)
Keyboard¹⁵	HP USB Standard Keyboard or HP PS/2 Standard Keyboard
Pointing device¹⁵	HP USB Optical Mouse or HP PS/2 Mouse, HP USB 1000dpi Laser Mouse
Software	HP ProtectTools Security Suite, HP Vision Diagnostics, HP Software Management Agent PDF Complete, Corporate Edition, Computrace for Desktops agent, Buy Office
Manageability features¹⁶	Intel® vPro™ Technology, Intel Standard Manageability, HP Client Catalog for Microsoft SMS, HP SoftPaq Download Manager, HP Systems Software Manager
Security¹⁸	TPM 1.2 Embedded Security Chip integrated with Broadcom NIC (TPM module disabled where use is restricted by law), HP ProtectTools Security Software Suite, Serial, parallel, USB enable/disable (via BIOS), Credential Manager, Smart Card Manager (sold separately), 12V PUSB Cards (sold separately), Power Configurable Serial Port Card COM 3 & 4 (sold separately), Wall Mount (sold separately), HP Desktop Security Lock Kit (lock and cable) (sold separately), Security cable with Kensington lock (sold separately), HP Rear Port/Cable Control Cover (sold separately)
Dimensions (H x W x D)	3.95 x 13.3 x 15.0 in (100 x 338 x 381 mm)
Weight	15.08 lb (6.84 kg) Note: Exact weight depends on configuration
Power supply (required)	240 W 90% efficient, active PFC
Operating temperature range	32° to 104°F (0° to 40°C)
Energy efficiency compliance	ENERGY STAR® Qualified configurations available EPEAT® Gold

- 1 Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 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 hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- 2 Optional features sold separately or as add-on features.
- 3 HP Care Pack Services are sold separately. Service levels and response times for HP Care Pack Services may vary depending on your geographic location.
- 4 Not all features are available in all editions of Windows 8.1. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8.1 functionality. See microsoft.com.
- 5 Not all features are available in all editions of Windows 7. This system may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See microsoft.com/windows/windows-7/ for details.
- 6 This system is preinstalled with Windows 7 Pro software and also comes with a license and media for Windows 8 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
- 7 For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system.
- 8 For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 8.1) of system disk is reserved for the system recovery software.
- 9 Optical drives are optional or add on features. Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. 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.
- 10 Optional or add-on feature.
- 11 Gigabit ethernet speeds may vary.
- 12 802.11 requires wireless access point and internet service. Availability of public wireless access points limited.
- 13 HD content required to view HD images.
- 14 Integrated Intel HD graphics uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs.
- 15 Optional or add-on feature.
- 16 Intel® vPro™ Technology available on models with Intel® Core™ i7 and Intel® Core™ i5 processors.
- 17 Optional optical drive can be replaced with third storage device, limitations may apply.
- 18 HP ProtectTools requires Windows
- 19 EPEAT® registered where applicable. EPEAT registration varies by country. See epeat.net for registration status by country.

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