QuickSpecs

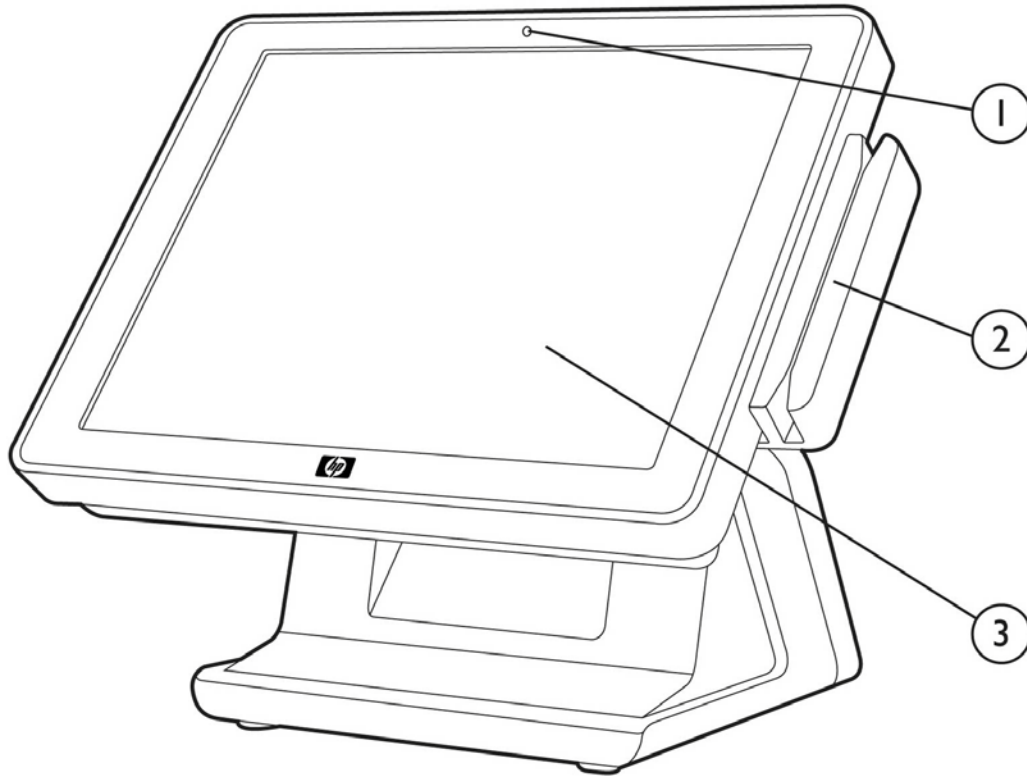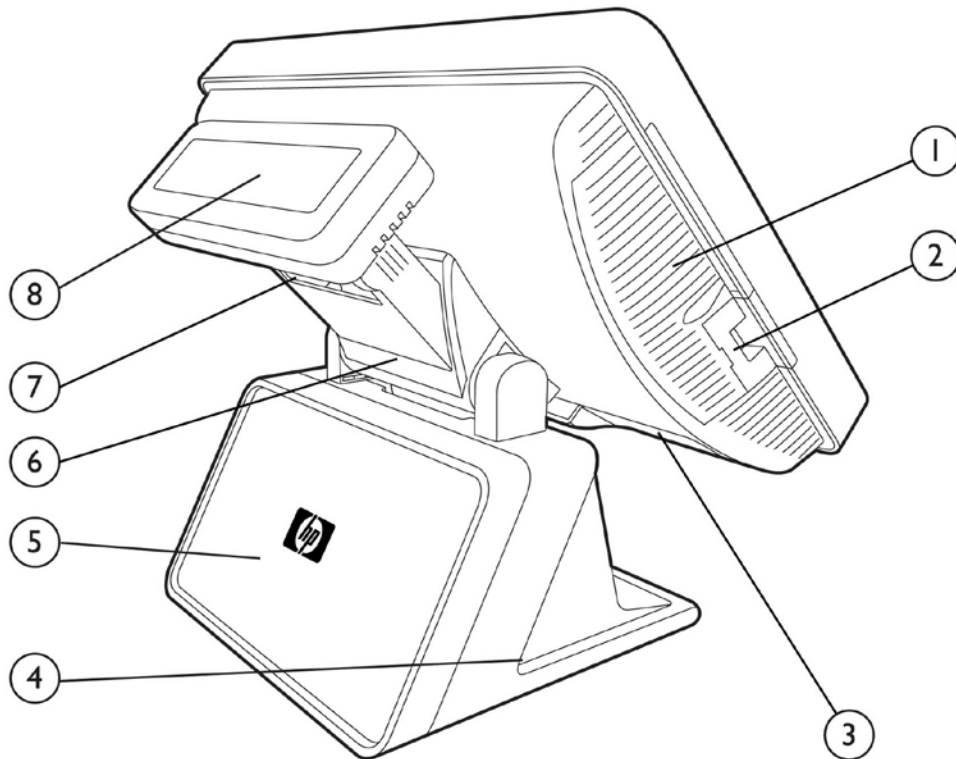*Overview*

HP ap5000 All-in-One POS System

1. Power LED/Beep LED
2. Multi-Track (3) Magnetic Stripe Reader (MSR)

3. Resistive Touch Screen

Overview

1. Two 2.5" Hard Disk Drive (HDD) bays
2. One USB 2.0 port, one audio line-out and one microphone-in jacks
3. I/O Panel with cover

4. Stand with internal power supply adapter

5. Advertisement panel (non-electrical)
6. Main display hinge, allows for 90-degree pitch adjustment
7. Customer Facing Display hinge, allows for 80degree pitch adjustment
8. Customer facing 2 Line Vacuum Florescent Display (VFD). Optional 10.4" LCD Display also available.

At a Glance

a. Intel® Core™ Duo E7400 processor or Intel Celeron 440 processor
b. One of the following operating systems: Windows 7, Windows XP Professional (available through downgrade rights from Genuine Windows 7 Professional), FreeDOS, POSReady 2009
c. Intel Q965/ICH8R Chipset
d. Dual Channel DDR2 Memory
e. 10/100/1000 NiC
f. SMART III HHD or SSD
g. RAID level 0,1,5 capable (not preconfigured from HP Factory)
h. Manageability Tools
i. 2 year production life cycle
j. Cable Management Features
k. Advertising Panel (for print ads)
l. Energy Star 5, EU Compliant, RoHS2 Compliant
m. HP Warranty, 3/3/3 standard,

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

Options

Processors	Intel® Celeron® 440 (2.0 GHz, 512K L2 Cache, 800 MHz FSB) Intel Core™ 2 Duo E7400 (2.8 GHz, 3 MB L2 Cache, 1066 MHz FSB)

Operating System **Preinstalled**

Microsoft Windows 7 Professional, 32-bit
Microsoft Windows 7 with downgrade to XP Professional SP3 (for a limited time only)
FreeDOS
Microsoft Embedded POS Ready 2009

Graphics Integrated Intel Graphics Media Accelerator 3000

Display 15-inch diagonal TFT dual-bulb display, 1024 x 768 resolution, with 5-wire resistive type touchscreen, liquid and dust resistant up to IP55. Precalibrated at factory but should be recalibrated after initial software via the calibration wizard. Hard stylus input: finger tip, finger nail, or credit card edge to perform touch.

Memory Dual-channel — DDR2 up to 4 GB DIMMS, 2 slots, supports 667/800 MHz; most configurations ship with 1 x 2GB or 1 x 1 GB + 1 x 2 GB (3 GB) NOTE: DDR 2 800MHz will clock down to 667MHz

---

NIC Realtek RTL8111C Ethernet Connection, 10/100/1000, with WOL support

---

Keyboard Keyboard not included. PS/2 or USB supported. NOTE: A keyboard is required to unbundle the software image.

Pointing Device Pointing Device not included. USB supported. Pointing devices include a mouse, trackball, touch pad, etc…

Multi Track (3) Magnetic stripe reader (MSR) Integrated MSR, conforms to ANSI/ISO 7810, 7811 1/5, 7812, and 7813; Supports OPOS and JPOS drivers layer; 3 tracks: IATA, ABA, THRIFT; bi-directional swipe, LED indicates status of reader

---

Vacuum Fluorescent Display (VFD) (Customer Facing) 2 line x20 character display (40 characters total), RS232 interface, DC5V (COM 2 port set to 5V at factory in BIOS setup). Supports complex character set, control commands, user-defined fonts and international fonts. Display pitch adjustment 80 degrees (10deg to 90 deg), no height adjustment.

WARNING: Display must be plugged into COM 1 or COM 2 (not COM3 since COM 3 does not support DC5V. Plugging the VFD into COM 3 may damage the VFD. COM 1 may be used

Options

for the VFD but 5V will need to be selected in BIOS Setup for COM 1.

Advertisement panel	This non-electrical panel features a clear cover. It may be removed so that print material/advertisements can be displayed. HP provides a template for the advertisement panel.

Storage	**Hard Drive**	(2) 2.5" internal hard drive bays: 160 GB 2.5" (select models), 64 GB solid state drive 2.5" (select models)
	Optical Drive	External USB only (not included). NOTE: an optical drive is required to restore the software image.

I/O Panel

VGA	1
USB 2.0	6: 5 (located at bottom of main display behind access panel), 1 left side (behind access panel)
Audio line out	1
Microphone in	1
Power connector	1: DC 19V for 130W AC power adapter
RJ-45/Ethernet	1
RS232 ports	3: Com 1 & 2 (5 V configurable in BIOS), Com 3 (12V configurable in BIOS)
USB+power	1: 24 V
Keyboard (PS/2)	1
Parallel port	1
Kensington Lock Hole	1 (lock kit sold separately)

I/O Panel Layout:

Audio/Visual	Intel integrated high-definition audio with 2-channel Via VT1708S codec

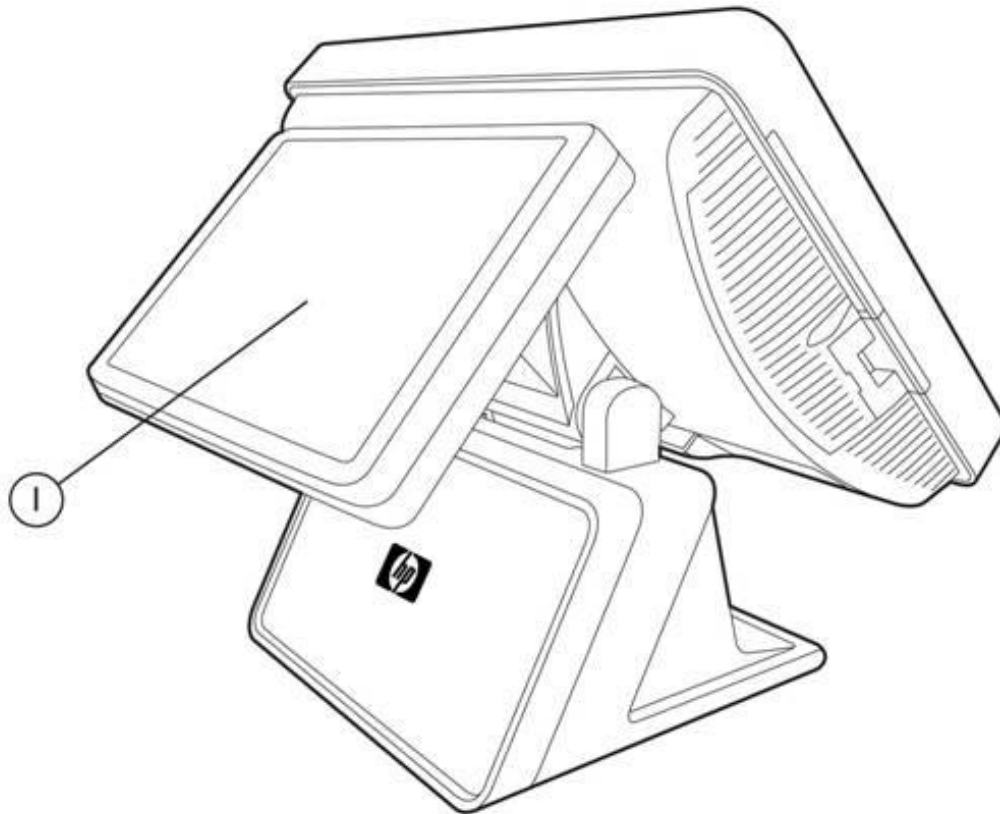| **Software**	Preinstalled software	PDF Complete, HP Client Automation Agent
		McAfee Total Protection (Windows 7 and Windows XP only)

Options

Power Manager	Advanced Configuration and Power Management Interface (ACPI).

- 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.

Note: Power button is located on I/O panel and concealed under the I/O cover

SMBIOS System Management BIOS, previously known as DMI BIOS, for system management information

Security Kensington Lock Support, Power-On password protection, Setup password protection, USB port disable.

Power Supply 130 W AC power adapter, ENERGY STAR 5.0 qualified, European Union 2005/32/EC (EUP LOT 6, EUP LOT 7), input 90 to 260 VAC; Frequency range 47 to 63 Hz

Service and Support Standard 3/3/3 parts and labor and on-site service, two-year manufactured lifecycle but support available up to five years, OS support for 90 days; quick restore solution included (requires external optical drive/not included)

Customer Facing Display CFD	10.4" Customer Facing Display	AZ191AA

1. **Description**	10.4" Customer Facing (CFD)
	The optional Customer Facing Display (CFD) is a liquid crystal display (LCD) that can be used to display promotional messages and images. The CFD is mounted to the HP ap5000 All-in-One POS System in lieu of the 2-line Vacuum Florescent Display (VFD). The CFD will display full color graphics and video via the on-board VGA port. The display receives power from the VGA port so there is no need for a separate power adapter "brick". User buttons are located on the back of the CFD, recessed and out of sight to the customer. The CFD uses the VFD mounting mechanism. Simple procedures for removing the VFD and installing the CFD are included in the 10.4" Customer Facing Display documentation in AMO kit AZ191AA.

10.4" Customer Facing (CFD) Technical Specifications	TBD

Options

CFD User buttons	TBD	
Hard Drives	HP 160-GB SATA (NCQ/Smart IV) 3.0-Gb/s Hard Drive	PY277AA
	HP 64 GB Solid State Drive for HP Business Desktop PCs	VG679AA
Optical Drives	External USB CD/DVD R/RW Drive	FS943UT
Input/Output Devices	HP USB 2- Button Optical Scroll Mouse	DC172ATB
	HP USB Washable Keyboard	VF097AA
POS Peripherals	HP Cash Drawer	FK182AA
	HP USB Barcode Scanner	EY022AA
	HP USB Single Station Thermal Receipt Printer	FK022AA
	HP Pole Display	FK225AA
Memory (DIMMs)	HP 1 GB PC2-6400 (DDR2 800 MHz)*	AH058AA
	HP 2 GB PC2-6400 (DDR2 800 MHz)*	AH060AA
	* Runs at maximum speed of 667 MHz for ap5000.	
Security	Kensington Security Lock Kit	PC766A

Technical Specifications

System Unit	**Dimensions** (HxWxD)	(17.16 x 13.86 x 18.98 in) 43.6 x 35.2 x 48.2 cm	
	Weight	24.36 lb (11.05 kg)	
	Stand-Alone Power Requirements	Electrical Ratings	90 to 264 VAC; 47 to 63 Hz
		Average Operating Power	47.3W under normal operation
		Max Operating Power	130 watts
	Temperature	Operating	50° to 104° F (10 to 40° C)
		Non-operating	-20° to 140° F (-30° to 60° C)
	Relative Humidity	Operating	20 to 85%
	Altitude (unpressurized)	Operating	0 to 10,000 ft (3,048 m)
		Non-operating	0 to 30,000 ft (9,144 m)
	Industry Standard Certifications	UL, CSA, FCC Compliance, ENERGY STAR®, EPEAT TBD®	

For accessibility information on HP products, please visit: http://www.hp.com/accessibility.