

q3668a : HP Color LaserJet 4650 printer



High-speed, high-quality colour laser printing

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technical specifications

print speed	first page out colour: 15 sec.		
	dependent on type and print mode		
	plain paper	transparencies	best
black a4	Up to 22 ppm	Up to 22 ppm	Up to 22 ppm
colour a4		Up to 22 ppm	
	<i>Exact speed varies depending on the system configuration, software application, driver, and document complexity.</i>		
colour on a4 transparency	Up to 3 ppm		
processor	533 MHz RISC Processor		
warm up time	1 min		
memory	standard: 160 MB ,Expandable to 544 MB through 2 industry-standard 200-pin dual-data-rate (DDR) SDRAM small-outline DIMM slots using Memory Enhancement technology (MEt)		
	maximum: 416 MB		
	memory slots: 2 industry-standard 200-pin dual-data-rate (DDR) SDRAM small-outline DIMM slots, 3 flash memory card slots		
print technology	In-Line colour laser printing technology, direct-to-page printing		
print quality	output	normal	best
	black	Up to 600 x 600 dpi	600 dpi native resolution; 6-bit pulse; 2-bit position
	colour		Up to 600 x 600 dpi
colour technology	HP ImageREt 3600		
languages	standard: HP PCL 6, HP PCL 5c (Web download), HP PostScript Level 3 emulation, native PDF printing, optional mobile phone and PDA printing via the HP bt1300 adapter		
typefaces/fonts	80 internal TrueType fonts internal scalable in HP PCL and HP		

PostScript Level 3 emulation.					
print margins (mm)	media type/size	top	left	right	bottom
		a4	5 mm	5 mm	5 mm
media handling/input		weight		size	
	tray 1	Multipurpose tray: 60 to 200 g/m ²		76.2 x 127 mm to 216 x 356 mm; Letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), DPostcard (JIS), 16k, envelopes (No. 10, Monarch, C5, DL, B5)	
	tray 2	Trays 2, 3, 4: 60 to 120 g/m ²		148 x 210 mm to 216 x 356 mm; Letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), 16K, and custom media	
	tray 3	-		148 x 210 mm to 216 x 356 mm; Letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), 16K, and custom media	
media handling/output standard	sheets	: 250-sheet face-down output bin			
	envelopes	: Up to 30			
	transparencies	: Up to 200			
duplex printing	two sided printing capability	: None			
interface and connectivity	standard	: IEEE 1284-C compliant bidirectional parallel port, USB (compatible with USB 1.1 specifications) port, wireless connectivity, auxiliary port, 3 open EIO slots			
	optional	: HP Jetdirect 620n 10/100Base-TX internal print server, HP Jetdirect EIO print servers for Ethernet (10Base-T, 10Base2), 802.11b wireless Ethernet Token Ring, LocalTalk, serial and USB (compatible with USB 2.0 specifications), Bluetooth			
operating systems compatibility	<p>Microsoft Windows 98, 98 SE, NT 4, Me, 2000, XP 32-Bit (driver support is provided for 64-bit OS, but no installer or toolbox support), Server 2003 32-bit (driver support is provided for 64-bit OS, but no installer or toolbox support); Mac OS 9.0 and later, Mac OS X.0 and later; UNIX; Linux; HP OpenVMS; OS/2</p> <p>Microsoft® Windows® 98, Me, NT 4.0, 2000, XP 32-Bit, Server 2003 (32-bit); Novell™ NetWare 3.2, 4.2, 5.x, 6; Apple Mac OS 9.x and later; Red Hat Linux 6.x and later; SuSE Linux 6.x and later; HP-UX 10.20, 11.x; Solaris™</p> <p>Current HP printer drivers and software can be obtained from the HP Customer Care Web site http://www.hp.com/support/clj4650</p>				
network operating systems compatibility	supported	: Microsoft Windows 98, Me, NT 4.0, 2000, XP, XP 64-Bit, 2003 Server; Apple Mac OS 8.6 and later; Novell NetWare 3.2, 4.2, 5.x, 6; Red Hat Linux 6.x and later; SuSE Linux 6.x and later; HP-UX 10.20, 11.x; Solaris 2.5x, 2.6, 7, 8 (SPARC systems only); IBM AIX 3.2.5 and later (requires software from the NOS vendor); MPE-iX;			

	<p>for more information, refer to http://www.hp.com/support/net_printing</p> <p>Compatible network protocols: TCP/IP, IPX/SPX, AppleTalk (not supported on Token Ring print servers), DLC/LLC, IP Direct Mode, LPD, FTP Printing, IPP, NDS, Bindery, NCP, NDPS, iPrint, Telnet, SLP, IGMP, BOOTP/DHCP, WINS, SNMP, HTTP</p> <p>Note: Not all protocol and operating system combinations are supported.</p> <p>Advanced security with: SNMP v3, SSL/TLS (HTTPS)</p>
	<p>optional : Apple Mac OS 8.6 and later</p>
minimum system requirements	<p>Microsoft® Windows® 98: Pentium® 90 processor with 16 MB RAM; Microsoft® Windows Me: Pentium 150 processor with 32 MB RAM; Microsoft® Windows NT® 4.0: Pentium 90 processor with 32 MB RAM; Microsoft® Windows 2000, XP: 300 MHz processor with 64 MB RAM; Microsoft® Windows Server 2003, Standard Edition: 550 MHz processor with 128 MB RAM; 220 MB of free hard disk space, CD-ROM drive or Internet connection</p>
minimum for macintosh	<p>Mac OS 9.0, 9.04, 9.1, 9.2 with 96 MB RAM; Mac OS X v 10.1 and later with 128 MB RAM</p>
standard software	<p>HP PCL 5c, HP PCL 6, PostScript 3 emulation, printing system installation software on CD-ROM; PCL 5c provided on Web only</p>
control panel	<p>LCD backlit panel display with up to 4 lines of text and animated printer graphics, 3 LED status lights, Menu button, Stop button, Help button, Up/Down/Back scroll arrow buttons, Select button (check mark)</p>
power requirements	<p>Input voltage 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz); 110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz);</p>
dimensions (w x d x h)	<p>without two-sided printing module : 456 x 480 x 566 mm</p> <p>packaged : 798 x 645 x 695 mm (US/LAR), 798 x 645 x 820 mm (Europe/AP)</p>
product weight	<p>out of package : 36.3 kg</p> <p>packaged : 60 kg (Europe/AP), 52 kg (US/LAR)</p>
printer management	<p>HP Web Jetadmin, HP Embedded Web Server, printer status and alerts, HP Toolbox</p>
operating environment	<p>environmental ranges</p> <p>operating temperature : 10 to 30° C</p> <p>operating humidity : 10 to 80% RH</p> <p>recommended operating humidity : 30 to 70% RH</p> <p>recommended operating temperature : 17 to 25° C</p> <p>storage temperature : 0 to 35° C</p> <p>storage humidity : 10 to 80% RH</p> <p>noise level per iso 9296</p> <p>sound power l_{wad} : 6.5 B(A)</p> <p>operating position l_{pam} : 56 dB(A)</p>
energy star	<p>Yes</p>
certifications	<p>EMC: CISPR 22: 1997/EN 55022: 1998 Class B; EN 61000-3-2: 1995/A14; EN 61000-3-3: 1995; EN 55024: 1998; FCC Title 47 CFR, Part 15 Class B/ICES-003, Issue 3/GB9254-1998, GB17625.1-1998; EMC Directive 89/336/EEC, the Low Voltage Directive 73/23/EEC, and carries the CE-Marking accordingly</p> <p>regulatory standards:</p> <p>Czech Republic (CSN-IEC 60950-IEC 60825-1), Estonia (EEI-EN60950-IEC 60825-1), EU (CE Mark-Low Voltage Directive 73/23/EEC), Germany (TÜV-EN60950-IEC 60825-1), Hungary (MEEI-IEC 60950-IEC 60825-1), Lithuania (LS-IEC 60950-IEC 60825-1), Poland (B Mark-IEC 60950-IEC60825-1), (Russia</p>

(GOST-R50377), Slovakia (IEC 60950-IEC60825-1), Slovenia
(SQI-IEC 60950-EN60825-1), South Africa (IEC 60950-
IEC60825-1)