



**robust**



**cost effective**

**data sheet**



## hp business inkjet 2230/2280 series 2230 • 2280 • 2280tn

The HP Business Inkjet 2230/2280 series is designed for power users and small workgroups who need to print professional color documents quickly and cost-effectively. These robust printers deliver sharp, accurate printing for both desktop and networked environments.

### network/Internet ready

- add to your network—share your printer over your network as easy as installing any hp LaserJet printer (optional on 2230 and 2280)
- easy connectivity—the hp jetdirect EIO internal print server and hp PCL 5c and PostScript® 3 emulation (optional on 2230) make shared color printing both easy to use and manage from any standard Web browser
- Internet enabled—with an embedded Web server, the hp business inkjet 2280tn is capable of sending and receiving e-services (optional on 2230 and 2280)
- remote management—self-diagnostic e-services automatically send e-mail alerts when attention is required, such as paper out or low ink (optional on 2230 and 2280)

### cost-effective

- reduce printing costs—four individual high-capacity ink cartridges (CMYK) let users change only the ones they need, contributing to a color cost per page of just 8.4\* cents (2.2\* cents black and white)
- minimize user intervention—the hp business inkjet 2230/2280 series is equipped with individual high-capacity ink cartridges that print around 1,750 pages for each color and a 250-sheet paper tray for minimal intervention; add an optional 250-sheet paper tray (standard with 2280tn) to increase capacity to 500 sheets
- reduce wasted printing—individual cartridges feature smart chips to continuously monitor print head health, print quality, and ink supply

### performance

- print large jobs efficiently—print professional color documents with speeds of 7.5 ppm in normal mode and 14 ppm in fast mode and the new “speed optimized normal” mode prints up to 50% faster than “normal” mode with comparable print quality
- print on demand—print processing powered by 96/167 MHz dual processors and 48 MB of on-board printer memory; expandable up to 176 MB for fast printing of even the biggest graphic files (96 MHz/16 MB standard on 2230)
- confidently produce quality, accurate documents—print any business document with complete accuracy and superior print quality through auto-switching of hp PCL5C and PostScript 3 emulation (optional on 2230)

\*Based on 5% average ink coverage for each color.

HP printing and imaging systems help you create powerful, professional communications easily. Printers, supplies, accessories, and services are designed together to work together and invented to meet your business needs.

# hp business inkjet 2230/2280 series

## hp business inkjet 2280tn shown

intuitive control features include LCD menu, job cancel and resume buttons, and ink level gauge

connect to PC or Mac® using parallel and EIO ports (optional on 2230)

four individual high-capacity ink cartridges (CMYK)



500-sheet printing capacity with 250-sheet input tray and optional second 250-sheet paper tray (standard on 2280tn)

150-sheet output tray

### high performance color printing

- quality printing in less time—7.5 ppm color and 11 ppm black (normal mode), 14 ppm color and 15 ppm black (fast mode)
- 16 MB RAM (2230), 48MB RAM (2280, 2280tn)—upgradable to 176 MB
- high speed printing via 96/167 MHz dual processors (96 MHz single processor on 2230)
- robust networking with hp jetdirect EIO card
- excellent print quality up to 1200 x 600 dpi with hp photoret III
- Internet-enabled with embedded Web server for sending and receiving e-services

#### hp business inkjet 2230

high speed color for desktop users

- 16 MB RAM
- 96 MHz processor
- 250-sheet paper input tray

#### optional accessories

- second 250-sheet paper input tray
- hp PCL 5c/PostScript 3 emulation
- hp jetdirect EIO internal print server
- memory upgrade—expand up to 176 MB with hp 64/128 MB SDRAM module (note: hp PCL 5c/PostScript 3 emulation card required to enable memory upgrade)

#### hp business inkjet 2280

high speed color for small workgroups

- 48 MB RAM
- 96/167 MHz dual processors
- 250-sheet paper input tray
- hp PCL 5c/PostScript 3 emulation

#### optional accessories

- second 250-sheet paper input tray
- hp jetdirect EIO internal print server
- memory upgrade—expand up to 176 MB with hp 64/128 MB SDRAM module

#### hp business inkjet 2280tn

high speed color for networked environments

- 48 MB RAM
- 96/167 MHz dual processors
- two 250-sheet paper input trays
- hp PCL 5c/PostScript 3 emulation
- hp jetdirect EIO internal print server

#### optional accessories

- memory upgrade—expand up to 176 MB with hp 64/128 MB SDRAM module

If you need a powerful, cost-effective color printer for your desktop or a network printer for your small office or workgroup, the HP Business Inkjet 2230/2280 series printers offers the solution for your business needs today, and tomorrow. Use any of these models to deliver fast, vibrant printing for all your important business communications.



#### **networking now (or later)**

All of the HP Business Inkjet 2230/2280 series printers are built with networking in mind. If you're looking to network your small business or workgroup immediately, consider the HP Business Inkjet 2280tn. This printer comes with a robust EIO networking HP Jetdirect card and an embedded Web server to make shared color printing easy to use and manage from any standard Web browser, in all major network environments and protocols. The HP Business Inkjet 2280tn printer is Internet-enabled, capable of sending and receiving printing e-services such as self-diagnostic services that send automatic e-mail alerts when attention is required. If networking capability isn't an immediate need, purchase either the HP Business Inkjet Printer 2230 or 2280 with the knowledge that both printers can be upgraded for full networking ability.

#### **powerful printing**

The HP Business Inkjet 2230/2280 series was designed for users looking for an affordable solution to their demanding printing needs. Produce professional, effective communications in less time. For fast printing or drafts, you can print full-color documents at speeds of 14 ppm in fast mode and 15 ppm in black and white. When you're ready to print the final product, use the normal mode and receive color printouts at 7.5 ppm. Plus, HP has added a new "Speed-optimized Normal" that prints documents up to 50% faster than the "Normal" mode with comparable print quality. Colors appear vibrant and sharp with HP PhotoREt III color layering technology. Print accuracy and excellent quality are assured with auto-switching of HP PCL 5c and PostScript 3 emulation (optional on the 2230). The HP Business Inkjet 2280 and 2280tn both deliver the power that comes from 96/167 MHz dual processors (96 MHz on the 2230) and 48 MB of built-in RAM memory (16 MB in the 2230). And, all models can expand to 176 MB of RAM, making this the printer that truly grows with your business.

#### **affordable, low maintenance printing**

HP designed the HP Business Inkjet 2230/2280 series with you in mind—robust printers that don't require a lot of attention and won't increase your bottom line. By using four individual high-capacity ink cartridges (black, cyan, magenta, yellow), these printers create documents more efficiently, extending printing life. Each ink cartridge features smart chips to continuously monitor both printhead health and ink supply. And because you only have to replace the individual color ink cartridges that are empty, you save money on ink costs. Printed documents cost only 2.2\* cents per page for black and white and 8.4\* cents per page for color. The high-capacity ink cartridges print up to 1,750 pages on each color

thereby lowering your intervention with the printer. To further lower your intervention rate, consider purchasing an additional 250-sheet paper tray (standard on the 2280tn).

#### **works in your environment**

The HP Business Inkjet 2230/2280 series printers support Microsoft® Windows® and include standard parallel interfaces for PC environments. The 2280tn model also supports additional operating systems including Macintosh®, OS2, Linux®, and UNIX® (optional on the 2230/2280). And by using the same connectivity system, driver layout, and management tool support, the HP Business Inkjet 2230/2280 series blends seamlessly into HP LaserJet printer environments.

#### **maximize your returns with hp services**

In an effort to provide customers predictable cost structures and business efficiency gain, HP offers a comprehensive set of services, including HP Consulting, HP Outsourcing, HP Support, HP Education, and HP Finance. To find more information go to the HP Services Web site at [www.hp.com/hps/](http://www.hp.com/hps/)

\*Based on 5% average ink coverage for each color.

## technical specifications

### hp business inkjet 2230/2280/2280tn series printers

Memory: 16 MB internal fixed (48 MB internal fixed on 2280/2280tn models)  
upgradable to 176 MB  
Memory slots: ISO DIMM slot (144 pin, SDRAM, 133 MHz)  
Motorola microprocessor 97 MHz (2230 model), 97 MHz +167 MHz (2280, 2280tn models)  
HP PCL3 with high-performance architecture (HPA); HP PCL 5c and PostScript 3 emulation (2280, 2280tn models)

#### print speeds (in pages-per-minute)

letter	fast	normal
<b>best</b>		
Black text*	15	11
6.5		
Color mixed text/graphics*	14	7.5**
1.5		
Full page color*	6	2.5
0.5		

\*plain paper

\*\*new "Normalspeed Optimized" mode prints up to 50% faster than "Normal" mode with comparable print quality

#### resolution

HP PhotoREt III print quality  
1200 x 600 dpi

#### paper handling

Input tray: capacity 250 sheets 16 to 36 lb bond (60 to 135 g/m<sup>2</sup>)  
Optional 2nd tray: capacity 250 sheets (standard on 2280tn) 16 to 36 lb bond (60 to 135 g/m<sup>2</sup>)

Output tray: capacity 150 sheets

#### media types and sizes

Copier, bond, recycled, multipurpose, premium inkjet, premium inkjet heavyweight, premium transparency, premium photo paper, photo paper, professional brochure (matte and glossy), cards, and envelopes

Media sizes from 4 x 6 in (102 x 152 mm) to 8.5 x 14 in (216 x 356 mm)

#### control panel

Text-based LCD front panel  
Intuitive operations with Resume, Job Cancel, Menu, Item, Value, and Select buttons  
Messages can be displayed in 15 languages

#### operating systems

2230/2280: supports Windows 95/98/ME, Windows NT® 4.0, Windows 2000, Windows XP

2280tn: supports Windows 95/98/ME, Windows NT 4.0, Windows 2000, Windows XP, Macintosh OS 8.6 and above (including OS X)

#### networking operating systems (via optional hp jetdirect print servers)

Novell IntranetWare, NetWare 3.12, 4.x, 5.x, NDS and NDPS; HP-UX 10.20, 11.x; Solaris 7; IBM OS/2, Warp 4.x, AIX 3.2.5 and later; MPE-iX; Mac OS 8.6 and later; Red Hat® Linux 6.2; SuSE Linux 6.4; Artisoft LANtastic via HP Jetdirect printer servers

#### font capabilities

45 TrueType™ and 35 PostScript fonts built-in; all PostScript emulation and HP PCL 5c-accessible; Intellifont and TrueType rasterizer built into PCL 5c; built-in support for Arabic, Cyrillic, Greek, Asian 2-byte and Hebrew symbol sets

#### environmental ranges

Operating temperature: 41 to 104° F (5 to 40° C)  
Recommended operating conditions: 59 to 95° F (15 to 35° C)  
Storage temperature: -40 to 140° F (-40 to 60° C)  
Relative humidity: 20 to 80% RH non-condensing

#### acoustics

49 dB(A) sound pressure, 59 dB(A) sound power

#### power requirements

Source: 100 to 240 VAC (±10%), 2 Amp. max  
Frequency: 50 or 60 Hz (±3 Hz)

#### power consumption

Printing: 65 watts average printing, 68 watts maximum printing  
Powersave mode: less than 2 watts when off, 8 watts maximum when non-printing

#### product certification

Safety Certification: CCIB (China), CSA (Canada), PSB (Singapore), UL (USA), NOM-1-NYCE (Mexico), TÜV-GS (Germany), JUN (Korea)

#### smart features

Eservices with embedded Web server  
Inklevel gauge  
Auto pen alignment  
Transparency sensor  
HP Instant Support

#### connectivity

2230: IEEE 1284-compliant bi-directional parallel, 2 open EIO slots  
2280: IEEE 1284-compliant bi-directional parallel, HP PCL 5c/PostScript 3 emulation upgrade kit, 1 open EIO slot  
2280tn: IEEE 1284-compliant bi-directional parallel, HP PCL 5c/PostScript 3 emulation upgrade kit, HP Jetdirect 615n internal print server for Fast Ethernet 10/100Base-TX

#### duty cycle

Up to 10,000 pages-per-month

#### dimensions (w x d x h)

2230: 20.2 x 20.3 x 8.2 in (512 x 514 x 208 mm)  
2280: 20.2 x 20.3 x 8.2 in (512 x 514 x 208 mm)  
2280tn: 20.2 x 20.4 x 11.5 in (512 x 517 x 291 mm)

#### weight

2230: 23 lb (10.5 kg)  
2280: 23 lb (10.5 kg)  
2280tn: 32 lb (14.5 kg)

#### warranty

One-year HP Express Exchange warranty

#### what's in the box

Power cord, reference guide, setup guide, printer software CD-ROM, four printheads and ink cartridges (one each: black, cyan, magenta, and yellow), 250-sheet input tray (2280tn model only)

## ordering information

number	description
C8119A	HP Business Inkjet 2230 printer
C8120A	HP Business Inkjet 2280 printer
C8121A	HP Business Inkjet 2280tn printer
<b>service and support</b>	
H3679E	HP Supportpack, 2-year, express exchange
H3678A/H3678E	HP Supportpack, 3-year, express exchange
H3676E	HP Supportpack, 2-year, next-day onsite
H3675A/H3675E	HP Supportpack, 3-year, next-day onsite
<b>supplies and accessories</b>	
C8229A	HP PCL 5c/PostScript 3 emulation upgrade kit
C8230A	250-sheet input tray
<b>hp printheads</b>	
C4810A	HP 11 black printhead
C4811A	HP 11 cyan printhead
C4812A	HP 11 magenta printhead
C4813A	HP 11 yellow printhead
<b>hp inkjet print cartridges</b>	
C4844A	HP 10 black ink cartridge, (69 ml)
C4836A	HP 11 cyan ink cartridge, (28 ml)
C4837A	HP 11 magenta ink cartridge, (28 ml)
C4838A	HP 11 yellow ink cartridge, (28 ml)
<b>hp multipurpose paper</b>	
M1120	U.S. letter size, 500 sheets
<b>hp printing paper</b>	
HPF1122	U.S. letter size, 500 sheets
CHP210	European A4 size, 500 sheets
<b>hp premium inkjet paper</b>	
51634Z	European A4 size, 200 sheets
<b>hp premium inkjet heavyweight paper</b>	
C1852A	U.S. letter size, 100 sheets
C1853A	European A4 size, 100 sheets
<b>hp premium photo paper</b>	
C6039A	U.S. letter size, 15 sheets
C6979A	U.S. letter size, 50 sheets
C6040A	European A4 size, 15 sheets
C6043A	Asian A4 size, 15 sheets
C7040A	A4 size, 50 sheets
<b>hp photo paper</b>	
C1846A	U.S. letter size, 20 sheets
C6982A	U.S. letter size, 60 sheets
C1847A	European A4 size, 20 sheets
<b>hp professional brochure and flyer paper, glossy (2-sided)</b>	
C6817A	U.S. letter size, 50 sheets
C6818A	European A4 size, 50 sheets
<b>hp professional brochure and flyer paper, matte (2-sided)</b>	
C6955A	U.S. A size, 50 sheets
<b>hp premium transparency film</b>	
C3834A	U.S. letter size, 50 sheets
C3828A	U.S. letter size, 20 sheets
C3835A	European A4 size, 50 sheets
C3832A	European A4 size, 20 sheets
<b>hp premium plus transparency film</b>	
C7028A	U.S. letter size, 50 sheets
C7030A	U.S. letter size, 20 sheets
C7029A	European A4 size, 50 sheets
C7031A	European A4 size, 20 sheets
<b>memory</b>	
C2387A	64 MB SDRAM, PC-100 module
C2388A	128 MB SDRAM, PC-100 module
<b>interface and cables</b>	
C2950A	IEEE-1284 compliant A-B parallel cable, 2 m
C2951A	IEEE-1284 compliant A-B parallel cable, 3 m
<b>network</b>	
J3263A	HP Jetdirect 300x EIO (10/100 Base-TX)
J3264A	HP Jetdirect 500x EIO (Token Ring)
J3265A	HP Jetdirect 500x EIO (10/100 Base-TX)
J3111A	HP Jetdirect 600n EIO (BNC)
J3110A	HP Jetdirect 600n EIO (10/100 Base-T)
14167A	HP Jetdirect 610n EIO (Token Ring)
J4057A	HP Jetdirect 615n EIO (10/100 Base-TX)

## HP PCs use genuine Windows Operating Systems [www.microsoft.com/piracy/howtotell](http://www.microsoft.com/piracy/howtotell)

For more information on the HP Business Inkjet 2230/2280 series, visit our Web site at [www.hp.com](http://www.hp.com) and click on products and services. Here you will find information on products, supplies, and accessories for all your computing needs. HP printers, personal computers, supplies, and accessories are available at authorized HP resellers worldwide.

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