HP ThinkJet and HP QuietJet Printers

Technical Data

Quiet Printing for Personal Productivity

Features
- Plain-paper printing
- Excellent compatibility

The ThinkJet (HP 2225) and QuietJet (HP 2227 and HP 2228) Series printers comprise a whole family of quiet personal convenience printers. So quiet it is possible to talk on the telephone. So small any of them can fit easily into a work area. From a small, battery-operated printer to a wide-carriage desktop printer, there's a printer to meet many different needs.

Plain-paper Printing
An optional plain-paper print cartridge gives the freedom to use common office papers. For true economy and convenience, the paper of choice is the paper to use.
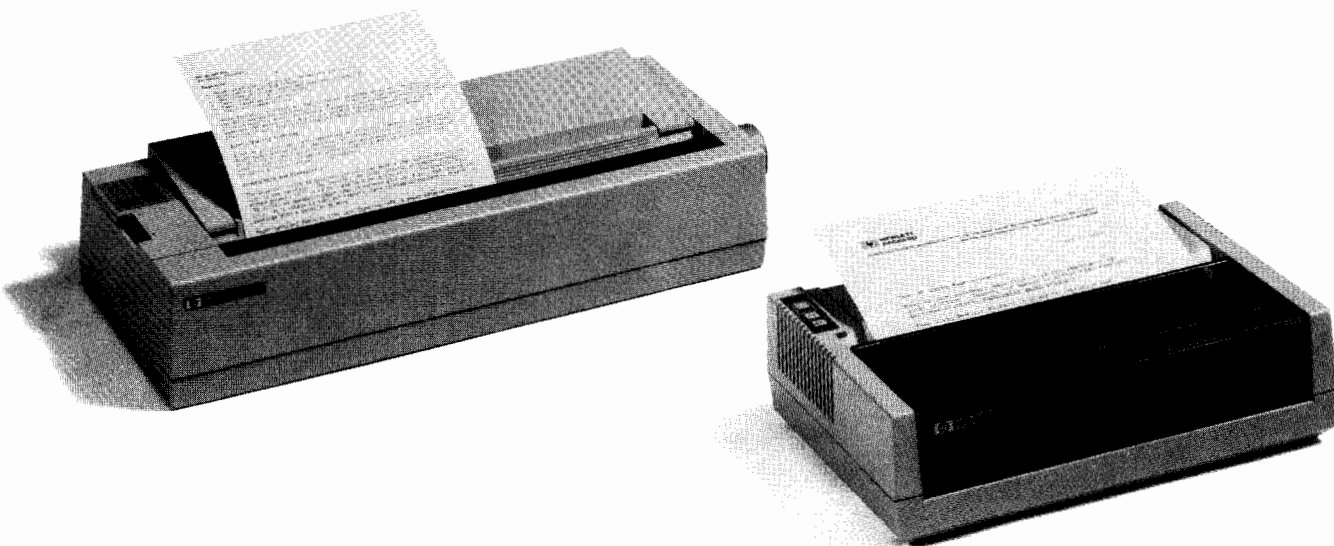
Excellent Compatibility
ThinkJet and QuietJet printers work with most popular software and personal or portable computers—HP, Apple, IBM, IBM-compatibles.

HP ThinkJet Printers HP 2225 Series
- Portable for desk or on the road
- Quality mode for letters and reports

The very compact and versatile ThinkJet Series printer delivers quick, quiet, dependable printing for office, home, or on-the-go. It produces easy-to-read text and graphics for personal productivity needs.

ThinkJet/QuietJet

Technical Data

Portable for Desk or on the Road

The ThinkJet printer (HP 2225 B/P) connects with portable computers. It's rugged and lightweight. And its long battery life (about 200 pages between recharges) assures printing dependability in many locations.

Quality Mode for Letters and Reports

Now the ThinkJet printer family offers a new 150-cps quality-mode printing for important letters and reports.

HP QuietJet Printers HP 2227 and 2228 Series

- Quick 192-cps draft and 48-cps NLQ printing
- Convenient front control panel
- Paper-handling convenience

Whether choosing the narrow-carriage QuietJet printer (HP 2228A) or the wide-carriage QuietJet Plus printer (HP 2227A/B), it provides quiet, quality printing for word processing, data base management, and computer graphics.

Convenient Front Control Panel

The convenient front control panel allows selection of 48-cps NLQ, 192-cps draft, and compressed print with just one keystroke. In addition, six print pitches, superscripts, subscripts, boldface, and underline are available.

Paper-handling Versatility

Adjustable tractors, last-form tearoff, and a paper advance knob allow for inserting, adjusting, even tearing off paper quickly and easily.

HP ThinkJet Printer Technical Information

Printing Process
Thermal inkjet printing

Print Speed
Draft mode: 150 characters per second at 12 characters per inch

Quality mode: 150 characters per second at 12 characters per inch

Command Language and Emulation
HP Printer Command Language PCL level 1+; Epson MX80 compatible

Switch selectable HP/alternate (Epson) modes

Character Cell Structure
11 × 12 dot character cell

Graphics Resolution
96 × 96 dots per inch dot-addressable graphics

192 × 96 dots per inch, double density mode

Character Sets
Roman8, PC8, PC8 (Danish/Norwegian), ASCII, ISO 7-bit languages (U.K., German, French, Italian, Norwegian, Swedish, Spanish, Portuguese, JIS ASCII)

Print Mode

Mode	Char./in.	Char./line
Normal	12	80
Expanded	6	40
Compressed	21.3	142
Expanded/compressed	10.7	71

Paper Sizes
Letter: 8.5 × 11 in.

A4: 210 × 297 mm

NOTE: For optimal print quality use HP JetPaper.

Paper Handling
Friction feed for single sheets

Pin feed for continuous fan-fold paper

Control Panel
Buttons: top-of-form, line feed, form feed

Indicators: power on, paper out

Interfaces and Power Sources

Printer	Interface	Power Source
2225A	HP-IB parallel	AC line
2225B	HP-IL serial	DC battery
2225C	Centronics parallel	AC line
2225D	RS-232-C serial	AC line
2225P	Centronics parallel	DC battery

Buffer Size
1 Kbyte

Environmental Ranges
Temperature
Operating: 10 to 40 degrees C (50 to 104 degrees F)

Storage: -20 to 60 degrees C (-4 to 140 degrees F)

Humidity
10 to 90% RH, non-condensing

Acoustics (per ISO DP7779 standard)
Sound pressure level-Lpa: less than 50 dB(A) @ 1 m bystander position

Power Requirements
Source
120 volts AC (+5%, -10%)

Frequency
47.5 to 63.0 Hz

Consumption
Operating: 18 W maximum
Standby: 10 W maximum

Physical Specifications

Height: 8.9 cm (3.5 in.)

Width: 2.92 cm (11.5 in.)

Depth: 20.6 cm (8.1 in.)

Weight: HP 2225A—3.36 kg
(7.4 lbs); HP 2225B—2.5 kg
(5.5 lbs); HP 2225C/D—3.1 kg
(6.8 lbs); HP 2225P—3.54 kg
(7.8 lbs)

Product Certifications

UL, CSA, FEI, NEMKO, TUV,
VDE/FTZ, IEC compliance, FCC
Class B Certified per FCC
Rules, Part 15, Subpart J, when
used with a Class B computing
device

Estimated Typical Usage

40 pages per day

HP QuietJet Printer Technical Information

Printing Process

Thermal inkjet printing

Print Speed

Mode	Char./sec.	Char./in.
Draft	160	10
	192	12
NLQ	40	10
	48	12

Command Language and Emulation

HP Printer Command Language
PCL level 1+; Epson MX80
compatible

Switch selectable HP/alternate
(Epson-type) modes

Character Cell Structure

Draft mode: 19 × 16 dot
character cell

NLQ mode: 19 × 32 dot
character cell

Graphics Resolution

96 × 96 dots per inch dot-
addressable graphics

192 × 96 dots per inch, double
density mode

192 × 192 dots per inch,
quadruple density mode

Character Sets

Roman8, PC8, PC8 (Danish/
Norwegian), ASCII, ISO 7-bit
languages (U.K., German,
French, Italian, Norwegian,
Swedish, Spanish, Portuguese,
JIS ASCII)

Printing Format

HP 2227A/B

Mode	Char./in.	Char./line
Normal	10	132
	12	158
Expanded	5	66
	6	79
	10.7	141
Compressed	21.3	281

HP 2228A

Mode	Char./in.	Char./line
Normal	10	80
	12	96
Expanded	5	40
	6	48
	10.7	85
Compressed	21.3	170

Paper Widths

2227—10.2 to 38.1 cm (4.0 to
15.0 in.)

2228—10.2 to 24.8 cm (4.0 to
9.75 in.)

NOTE: For optimal print
quality, use HP JetPaper.

Paper Handling

Friction feed for single sheets

Tractor feed for continuous Z-
fold paper

Control Panel

Buttons: on-line, form feed,
line feed

Indicators: NLQ mode, draft
mode, compressed mode

Interfaces

Centronics parallel and
RS-232-C serial (2227A/2228A)
HP-IB parallel (2227B)

Buffer Size

2 Kbytes, expandable up to 18
Kbytes

Environmental Ranges

Temperature
Operating: 10 to 40 degrees C
(50 to 104 degrees F)

Storage: -20 to 60 degrees C (-4
to 140 degrees F)

Humidity
10 to 90% RH, non-condensing

*Acoustics (per ISO DP7779
standard)*
Sound pressure level-Lpa: less
than 48.5 dB(A) @ 1 m
bystander position

Power Requirements

Source
100, 120, 220, 240 volts AC
(+10%, -10%)

Frequency
47.5 to 63.0 Hz

Consumption at 120 VAC
Operating: 18 W maximum
Standby: 10 W maximum

Physical Specifications
HP 2227
Height: 12.1 cm (4.8 in.)
Width: 52.7 cm (20.8 in.)
Depth: 22.1 cm (8.7 in.)
Weight: 4.7 kg (10.0 lbs 7.0 oz)

HP 2228
Height: 11.8 cm (4.6 in.)
Width: 39.5 cm (15.5 in.)
Depth: 21.4 cm (8.4 in.)
Weight: 3.9 kg (8.0 lbs 9.0 oz)

Product Certifications
UL, CSA, FEI, NEMKO, TUV,
VDE/FTZ, IEC compliance, FCC
Class B Certified per FCC
Rules, Part 15, Subpart J, when
used with a Class B computing
device

Estimated Typical Usage
40 pages per day

Interface and Cable Requirements

HP ThinkJet Printers

HP System	ThinkJet Model	Interface	HP Cable
HP-41C, CV, CX	2225B	82160A	82167A, B, or D
HP-71B	2225B	8240A	82167A, B, or D
HP-75C and D	2225B	Built-in	82167A, B, or D
HP-85*	2225B	82937A	10833A, B, C, or D
	2225B	82938A	82167A, B, or D
HP-86A	2225C	Built-in	92957A
HP-86B and 87	2225A	Built-in	10833A, B, C, or D
Series 100	2225A	Built-in	10833A, B, C, or D
	2225D	Built-in	13242G
Series 200	2225A	Built-in	10833A, B, C, or D

HP ThinkJet and QuietJet Printers

HP System	Printer I/O	Interface	HP Cable
Vectra PC	Parallel	HP 24540A Interface Card	24542D
	Serial	HP 24540A Interface Card	24542G
		HP 24541A Interface Card	24542G (using 9-pin connector) 13242G (using 25-pin connector)
Vectra CS, ES, RS	Parallel	Built-in	24542D
	Serial	Built-in	24542G
HP 150 PC	Serial	Built-in	13242G or 17255M
	HP-IB	Built-in	10833A
Portable PC	Serial	Built-in	92221P
HP Terminals (2392A, 2393A, 2394A, 2397A)	Parallel	Opt 093 or HP 40210P*	40242D or 13242D
	Serial	Opt 092 or HP 40210R*	40242G or 13242G

Other Systems	Printer I/O	Interface	HP Cable	Other Cable
Apple II, II+, IIe	Parallel	Apple II Parallel Interface Card or Grappler+	Not available	Apple 590-0042
	Serial	Apple Superserial Card	17355M	Apple 590-0037
Apple IIc	Serial	Built-in	92219N	Apple 590-0191-A
Macintosh†	Serial	Built-in	92219M	Standard Macintosh Printer Cable
IBM PC, PC XT	Parallel	IBM Parallel Printer Adapter	24542D	IBM Printer Cable
	Serial	IBM Asyn. Com. Adapter	17255D or 13242H	Not available
IBM PCjr	Parallel	IBM Parallel Printer Attach.	92219K	IBM Parallel Printer Cable
	Serial	Built-in	92219P	Not available
IBM AT	Parallel	IBM Serial/ Parallel Adapter	24542D	IBM Printer Cable
	Serial	IBM Serial/ Parallel Adapter	24542G	
IBM PS/2	Parallel	Built-in	24542D	
	Serial	Built-in	17255D or 13242H	
IBM Convertible	Serial	IBM Serial/ Parallel Adapter	17255D or 13242H	

*Requires an HP 00085-15002 Plotter/Printer ROM and does not require the 10833 cable when no other peripherals are attached.

†Requires software driver (35177M, available from HP Direct Marketing).

Ordering Information

Standard Unit

2225A
ThinkJet Printer (HP-IB)

2225B
ThinkJet Printer (HP-IL battery-power)

2225C
ThinkJet Printer (Centronics parallel)

2225D
ThinkJet Printer (RS-232-C serial)

2225P
ThinkJet Printer (Centronics/battery-power)

Standard unit includes: print cartridge, packet of Z-fold JetPaper, owner's manual, and warranty card. The HP 2225A, 2225C and 2225D include a power cord. The HP 2225B includes a 1-meter HP-IL cable, battery pack, and recharger. The HP 2225P includes a battery pack and recharger.

HP-IB, Centronics-type, and RS-232-C-type cable must be ordered separately. Non-HP interface boards and cards must be ordered through the personal computer supplier. The HP 2225P requires a 92219Z cable.

Standard Unit

2227A
QuietJet Plus Printer (RS-232 and Centronics/wide carriage)

2227B
QuietJet Plus Printer (HP-IB/ wide carriage)

2228A
QuietJet Printer (RS-232 and Centronics)

Standard unit includes: Print cartridge, packet of Z-fold JetPaper, power module/cord, owner's manual, and warranty card.

Supplies*

92261D	ThinkJet accessory kit (includes two black ink print cartridges, one acrylic printer stand, one dust cover, 500 sheets of 8.5 × 11 in. Z-fold paper, 500 sheets of 8.5 × 11 in. cut-sheet paper)
92261A	Black ink print cartridge (for use with JetPaper)
51605R	Red ink print cartridge (for use with JetPaper)
51605B	Blue ink print cartridge (for use with JetPaper)
51605G	Green ink print cartridge (for use with JetPaper)
51604A	Plain-paper black ink cartridge (for use with common office papers)
51630A	Z-fold JetPaper (8½ × 11 in. finished size, 500-sheet box; 20 lb, microperforated)
51630J	CutSheet JetPaper (8½ × 11 in. 500-sheet box; 20 lb, single sheets)
92261N	Z-fold JetPaper (8.5 × 11 in. finished size, 2500-sheet carton, 20 lb, microperforated)
51630L	JetLabels (2000 address labels [3½ × $^{15}/_{16}$ in. labels—two across], 9½ in. form width, pressure sensitive)

Accessories Available*

92171X	ThinkJet printer stand (for use with HP Touchscreen II or the HP 2392 terminal)
92261S	Smoked-acrylic ThinkJet printer stand
92261R	ThinkJet wire paper catcher (requires printer stand 92261S)
92250V	ThinkJet dust cover
13269TT	ThinkJet carrying case
82199A	ThinkJet battery pack (for HP 2225B and HP 2225P)
82059D	ThinkJet recharger (for HP 2225B and HP 2225P)
92250W	QuietJet Plus printer dust cover
92250X	QuietJet printer dust cover
92261T	QuietJet Plus printer stand
92261U	QuietJet printer stand
92261G	QuietJet Series wire paper catcher (requires printer stand 92261T or 92261U)

*Printer supplies are available at authorized HP dealers or through HP's Direct Marketing Operation (800-538-8787).