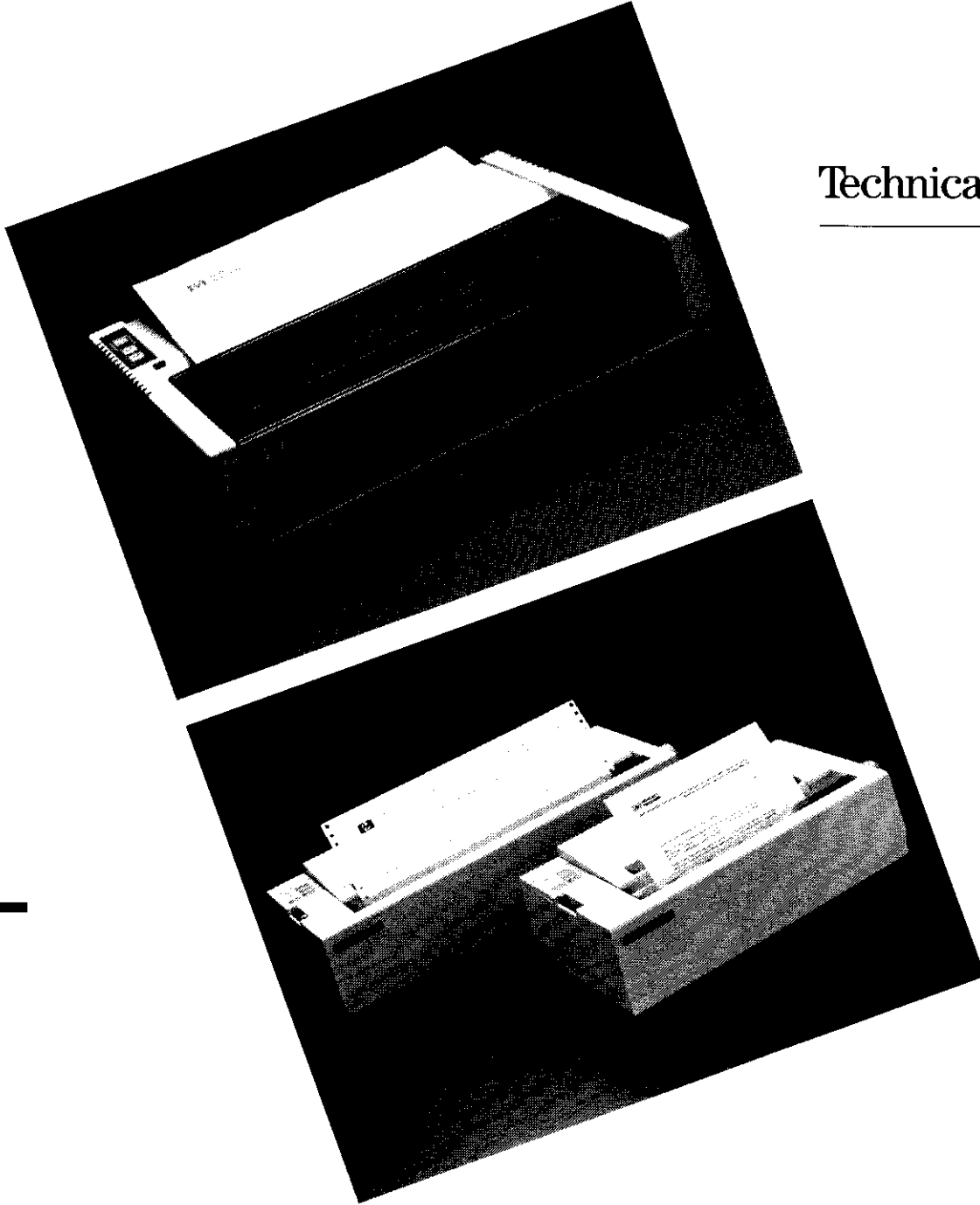

HP ThinkJet and QuietJet Printers HP2225, 2227, 2228

Technical Data



HP ThinkJet and QuietJet family features

- ◆ Plain-paper printing with an HP92261A print cartridge
- ◆ Excellent compatibility

Quiet printing for personal productivity

The ThinkJet and QuietJet Series printers comprise a whole family of quiet personal convenience printers. So quiet you can talk on the telephone. So small you can easily fit any of them into your work area. From a small, battery-operated printer to wide-carriage desk-top printer, there's a printer for you.

Plain-paper printing

A plain-paper print cartridge is available to give you the freedom to use common office papers. For true economy and convenience, you can use the paper of your choice.

Excellent compatibility

ThinkJet and QuietJet printers work with most popular software and personal or portable computers—HP, IBM, and IBM-compatibles.

HP ThinkJet Printers HP2225 Series

- ◆ Portable for your desk or on the road
- ◆ Quality mode for letters and reports

Compact, quiet and reliable

The compact and versatile ThinkJet Series printer delivers quick, quiet, dependable printing for office, home, or on-the-go and produces easy-to-read text and graphics to help you be more productive.

Portable for desk or on the road

You can match the ThinkJet printer (HP2225 B/P) with portable computers. It's rugged and lightweight. And its long battery life (about 200 pages between recharges) assures printing dependability wherever you go.

Quality mode for letters and reports

The ThinkJet printer family offers 150-cps quality-mode printing for important letters and reports.

HP QuietJet Printers HP2227 and 2228 Series

- ◆ Quick 192-cps draft and 48-cps near letter quality (NLQ) printing
- ◆ Convenient front control panel
- ◆ Paper-handling versatility

Quiet, quality printing for personal productivity

Whether you choose the **narrow-carriage** QuietJet printer (HP2228A) or the **wide-carriage** QuietJet Plus printer (HP2227A/B), you get quiet, quality printing for word processing, data base management and computer graphics.

Convenient front control panel

The convenient front control panel allows you to select 48-cps NLQ, 192-cps draft and compressed print with just one key. In addition, you get six print pitches, superscripts, subscripts, boldface and underline.

Paper-handling versatility

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

Ordering Information

HP2225A ThinkJet Printer (HP-IB)
 HP2225B ThinkJet Printer (HP-IL/battery-power)
 HP2225C ThinkJet Printer (Centronics parallel)
 HP2225D ThinkJet Printer (RS-232C serial)
 HP2225P ThinkJet Printer (Centronics/battery-power)

Standard unit includes:

Black ink print cartridge—92261A, packet of Z-fold JetPaper, owner's manual, and warranty card. The HP2225A, 2225C, and 2225D include a power cord. The HP2225B includes a 1-meter HP-IL cable, battery pack, and a recharger. The HP2225P includes a battery pack and recharger. HP-IB, Centronics-type, and RS-232C-type cable must be ordered separately. Non-HP Interface boards and cards must be ordered through the personal computer supplier. The HP2225P requires a 92219Z cable which must be ordered separately.

HP2227A QuietJet Plus Printer (RS-232 and Centronics/wide carriage)
 HP2227/B QuietJet Plus Printer (HP-IB/wide carriage)
 HP2228A QuietJet Printer (RS-232 and Centronics parallel)

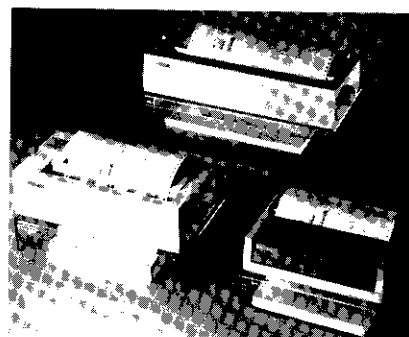
Standard unit includes:

Black ink print cartridge—92261A, packet of Z-fold JetPaper, power module/cord, owner's manual, and warranty card.

Supplies and Accessories

A wide range of JetSeries supplies support quality printing on ThinkJet and QuietJet printers.

- 51604A** Plain-paper black ink print cartridge. *For use with common office papers.* Fits ThinkJet and QuietJet printers.
- 92261A** Black ink print cartridge. *For use with JetPaper.* Fits ThinkJet and QuietJet printers.
- 51605R** Red ink print cartridge. *For use with JetPaper.* Fits ThinkJet and QuietJet printers.
- 51605B** Blue ink print cartridge. *For use with JetPaper.* Fits ThinkJet and QuietJet printers.
- 51605G** Green ink print cartridge. *For use with JetPaper.* Fits ThinkJet and QuietJet printers.
- 51630A** Z-fold JetPaper. 8½" x 11" finished size. 500 sheet box. 20 lb., microperforated.
- 92261N** Z-fold JetPaper. 8½" x 11" finished size. 2500 sheet box. 20 lb., microperforated.
- 51630D** Z-fold JetPaper (wide). 14¾" x 11" finished size. 2500 sheet box. 20 lb., microperforated. Fits QuietJet Plus Printer only.
- 51630L** JetLabels. 2000 pressure-sensitive address labels (3.5" x 15/16" labels—two across), 9.5" form width.
- 92261D** ThinkJet accessory kit. Includes two black ink print cartridges, one acrylic printer stand, one dust cover, 1000 sheets of Z-fold (8½" x 11") paper.
- 92171X** ThinkJet printer stand. *For use with Touchscreen II or the HP2392 Terminal.*
- 92261S** Smoked acrylic ThinkJet printer stand.
- 92261R** ThinkJet printer wire paper catcher. Requires printer stand #92261S.
- 92250V** ThinkJet printer dust cover.
- 35178C** ThinkJet printer carrying case.
- 82199A** ThinkJet printer battery pack. *For HP2225B and HP2225P.*
- 82059D** ThinkJet printer recharger. *For HP2225B and HP2225P.*
- 92261T** QuietJet Plus printer stand.
- 92261U** QuietJet printer stand.
- 92250W** QuietJet Plus printer dust cover.
- 92250X** QuietJet printer dust cover.
- 92261G** QuietJet Series printer wire paper catcher. Requires printer stand #92261T or #92261U.



QuietJet Printer Specifications

Printing Process

Thermal inkjet printing

Print Speed

Draft mode: 192 cps at 12 cpi, 160 cps at 10 cpi

NLQ mode: 48 cps at 12 cpi, 40 cps at 10 cpi

Command Language and Emulation

HP Printer Command Language
PCL level 1 + /alternate (Epson-type) modes—switch selectable

Character Cell Structure

Draft mode: 19 (h) x 16 (v)

NLQ mode: 19 (h) x 32 (v)

Graphics Resolution

96 x 96 dots per inch dot-addressable graphics

192 x 96 dots per inch, double density mode

192 x 192 dots per inch, quadruple density mode

Character Sets

Roman8, PC8, PC8 (Danish/Norwegian), ASCII, ISO 7-bit languages (U.K., Germany, France, Italy, Norway, Sweden, Spain, Portugal, ISO IRV, ECMA-94 Latin 1)

Printing Format

Print Mode	HP2228A char./line	HP2227A/B char./line
Normal	80 at 10 cpi	132 at 10 cpi
	96 at 12 cpi	158 at 12 cpi
	40 at 5 cpi	66 at 5 cpi
Expanded	48 at 6 cpi	79 at 6 cpi
	85 at 10.7 cpi	140 at 10.7 cpi
Compressed	170 at 21.3 cpi	281 at 21.3 cpi

Paper Handling

Friction feed for single sheets

Tractor feed for continuous Z-fold paper

Paper widths (2228): 10.2 cm (4") to 24.8 cm (9¾")

Paper widths (2227): 10.2 cm (4") to 38.1 cm (15")

Note: For optimal print quality, use HP JetPaper with HP92261A black ink print cartridge.

Control Panel

Buttons: On-line, form feed, line feed

Indicators: NLQ mode, draft mode, compressed mode

Interfaces

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

HP-IB parallel (2227B)

Buffer Size

(2227A/2228A) 2K bytes, expandable up to 18K and HP-IB parallel

(2227B) 8K bytes, expandable to 16K (by authorized service personnel only)

Operating Environment

Temperature: 10° to 40°C (50° to 104°F) operating; -20° to 60°C (-4° to 140°F) storage

Humidity: 10 to 80% RH, non-condensing

Acoustics: (per ISO 7779 standard) Sound pressure level— L_{pA} : <48.5 dB(A)@ front bystander position

Power Requirements

Power modules

100 volts AC (+10%, -10%)

47.5-63 Hz

120 volts AC (+10%, -10%)

47.5-63 Hz

220 volts AC (+10%, -10%)

47.5-63 Hz

240 volts AC (+10%, -10%)

47.5-63 Hz

Power consumption at 120 VAC:

10 W maximum non-printing, 18 W maximum printing

Maximum heat output 61.5 BTU/hour

Physical Specifications

2228/2227 Height: 11.8 cm (4.6")/12.1 cm (4.8")

2228/2227 Width: 39.5 cm (15.5")/52.7 cm (20.8")

2228/2227 Depth: 21.4 cm (8.4")/22.1 cm (8.7")

2228/2227 Weight: 3.9 kg (8 lb., 9 oz.)/4.7 kg (10 lb., 7 oz.)

Product Certifications

Safety Certifications:

Power module: UL, CSA, TUV, SETI, LCIE, SEV, DEMKO, NEMKO, SEMKO, SECV

Safety Certifications: Printer with power module: UL & TUV. Others not required.

EMI Certifications: Printer with power module: FCC Class B when used with a Class B computing device (USA), VDE/FTZ Level B (W. Germany), VCCI (Japan), SABS (South Africa).

Usage

40 pages per day maximum recommended usage

ThinkJet Printer Specifications

Printing Process

Thermal inkjet printing

Print Speed

Draft mode: 150 cps at 12 cpi

Quality mode: 150 cps at 12 cpi

Command Language and Emulation

HP Printer Command Language

PCL level 1+ /alternate (Epson-type) modes — switch selectable

Character Cell Structure

11 (h) x 12 (v)

Graphics Resolution

96 x 96 dots per inch dot-addressable graphics and 192 x 96 dots per inch, double density mode

Character Sets

Roman8, ASCII, ISO 7-bit languages (U.K., Germany, France, Italy, Norway, Sweden, Spain, Portugal, JIS ASCII) — depending on model

Printing Format

Normal (12 cpi): 80 char/line in a 6.67" print region

Expanded (6 cpi): 40 char/line in a 6.67" print region

Compressed (21.3 cpi): 142 char/line in a 6.67" print region

Expanded-Compressed (10.7 cpi): 71 char/line in a 6.67" print region

Paper Handling

Friction feed for single sheets

Pin feed for continuous Z-fold paper

Paper widths: 8.5" x 11" (U.S. standard)

21.0 cm x 29.7 cm

(metric A-4)

Note: For optimal print quality, use HP JetPaper with HP 92261A black ink print cartridge.

Control Panel

Buttons: Top-of-form, line feed, form feed

Indicators: Power on, paper out

Interfaces and Power Sources

HP-IB parallel, AC line power (HP2225A)

HP-IL serial, DC battery power (HP2225B)

Centronics parallel, AC line power (HP2225C)

RS-232C serial, AC line power (HP2225D)

Centronics parallel, DC battery power (HP2225P)

Buffer Size

1K bytes

Operating Environment

Temperature: 10° to 40°C (50° to 104°F) operating; -20° to 60°C

(-4° to 140°F) non-operating

Humidity: 10 to 80% RH non-condensing

Acoustics: (per ISO 7779 standard) Sound pressure level—

L_{pA} : <50dB(A) @ front bystander position

Power Requirements

Input voltage: 100/120/220/240 VAC (+5%, -10%) at 47.5-63 Hz

Power consumption: 10 W maximum, non-printing, 18 W maximum printing

Maximum heat output 61.5 BTU/hour

Physical Specifications:

Height: 8.9 cm (3.5")

Width: 29.3 cm (11.5")

Depth: 20.6 cm (8.1")

Weight: 3.36 kg (7.4 lbs) HP2225A, 2.5 kg (5.5 lbs) HP2225C and HP2225D

3.54 kg (7.8 lbs) HP2225P



Product Certifications

Safety Certifications: Power module: UL, CSA, TUV, SETI, LCIE, SEV, DEMKO, NEMKO, SEMKO, SECV. Safety Certifications: Printer with power module: UL & TUV. Others not required.

EMI Certifications: Printer with power module: FCC Class B when used with a Class B computing device (USA). VDE/FTZ Level B (W. Germany), VCCI (Japan), SABS (South Africa).

Usage

40 pages per day maximum recommended usage

Interface and Cable Requirements

HP System	ThinkJet Model	Host Interface	HP Cable #		
HP41C, CV, CX	2225B	82160A	82167A, B, or D		
HP71B	2225B	82401A	82167A, B, or D		
HP75C and D	2225B	Built-in	82167A, B, or D		
HP85*	2225A	82937A	10833A, B, C or D		
	2225B	82938A	82167A, B or D		
HP86A	2225C	Built-in	82957A		
HP86B 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 System	QuietJet I/O	Host Interface	HP Cable #		
Vectra PC	Parallel	HP24540A Interface Card	24542D		
	Serial	HP24540A Interface Card	24542G		
		HP24541A Interface Card	24542G (using 9-pin connector) 13242G (using 25-pin connector)		
Vectra ES, RS, QS	Parallel	Built-in	24542D		
	Serial	Built-in	24542G		
HP150 PC	Serial	Built-in	13242G or 17255M		
Portable PC	Serial	Built-in	92221P		
HP Terminals (2392A, 2393A, 2394A, 2397A)	Parallel	Opt 093 or HP40210P*	40242D or 13242D		
	Serial	Opt 092 or HP40210R*	40242G or 13242G		
Other Systems	QuietJet I/O	Host Interface	HP Cable #	Or	Other Cable #
Apple II, II+, IIe	Parallel	Apple II Parallel Interface Card or Grappler +	Not Available		Apple #590-0042
	Serial	Apple Super- serial Card	17355M		Apple #590-0037
Apple IIc	Serial	Built-in	92219N		Apple #590-0191-A
IBM PC, PC XT	Parallel	IBM Parallel Printer Adaptor	24542D		IBM Printer Cable
	Serial	IBM Asyn. Com. Adaptor	17255D or 13242-60011		Not available
IBM AT	Parallel	IBM Serial/ Parallel Adaptor	24542D		IBM Printer Cable
	Serial	IBM Serial/ Parallel Adaptor	24542G		
IBM PS/2	Parallel	Built-in	24542D		
	Serial	Built-in	17255D or 13242-60011		
IBM Convertible	Serial	IBM Serial/ Parallel Adaptor	17255D or 13242-60011		

*Requires an HP00085-15002 Plotter/Printer ROM and does not require the 10833 cable when no other peripherals are attached.

Technical information in this document is subject to change without notice.

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Or contact one of HP's regional offices.

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