



IBM 4247 Model V03 Printer Offers Durability and Fast Draft Print Speed for Demanding Applications

Overview

A Fast and Reliable Printer for Harsh Conditions

The IBM 4247 Model V03 is a professional industrial impact matrix printer capable of printing at speeds of up to 1,100 characters per second (cps) in Fast Draft mode.

The Model V03 is a rugged printer with metal covers, and is designed for harsh environments and demanding applications. It is compatible with previous IBM 4247 models and offers user-installable interface cards.

The Model V03 can have either one or two straight continuous-forms paper paths for outstanding paper-feeding reliability. One paper path is standard, and the second path is an optional feature.

The printer features quiet operation, a full-size operator panel similar to today's Model 003, and a workload of up to 64,000 pages per month. Print-quality choices are Fast Draft mode, Data Processing mode (DP), DP Text mode (DP Text), and Near Letter Quality mode (NLQ). Versatile paper-handling capability provides printing on up to 8-part forms.

Typical applications include transaction processing for invoices, office or internal business documents, as well as barcodes, labels, and multipart forms.

Support for a Range of Connectivity Options and Hardware Environments

A parallel port for simplified host attachment capability is standard. Optional attachments include:

- Ethernet local area network (LAN) attachment through the internal 10/100BASE-T Ethernet adapter or through Network Print Servers for 10BASE2 Ethernet
- Coax and twinax SNA Character Set (SCS)
- Coax and twinax Intelligent Printer Data Stream™ (IPDS™)
- Token-Ring Types 1 and 3 through Network Print Servers
- Ethernet IPDS LAN attachment with the I-Data RPQ 8B4314
- Token-Ring IPDS LAN attachment with the I-Data RPQ 8B4313
- Serial port for RS-232 or RS-422 attachment

Environments supported by the 4247-V03 include IBM @server zSeries™, iSeries™, and pSeries™, IBM AS/400®, RS/6000®, S/370™, and S/390®, IBM PCs, IBM-compatible PCs, non-IBM systems that support ASCII serial and parallel interfaces, and LANs.

Planned Availability Date

November 22, 2002

At a Glance

The new 4247 Model V03 offers:

- Print speed of up to 1,100 characters per second (cps) in Fast Draft mode
- Rugged design with metal covers for demanding transaction applications
- A workload capacity of up to 64,000 pages per month
- Two front paper paths for maximum forms-feeding reliability
- Internal Ethernet 10/100BASE-T adapter
- Easy-to-change attachment cards
- Full-size and full-function 2 line by 40 character operator display
- Quiet operation (56.3 dBa in DP Text mode)
- Multiple data-stream emulations to provide easy replacement of older printers
- OCR support
- Extensive barcode support

For ordering, contact:

Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at

800-IBM-CALL

Reference: YE001

Description

The IBM 4247 Model V03 Printer builds on the strengths of previous models of the IBM 4247 family while providing a new Fast Draft mode with a faster print speed.

Print Speed

Print speeds (in characters per second) of the 4247-V03 are up to:

- 1,100 cps at 10 characters per inch (cpi) in Fast Draft mode
- 800 cps in DP mode
- 480 cps in DP Text mode
- 240 cps in NLQ mode

The print speeds in lines per minute are up to:

- 500 lines per minute at 40 characters per line
- 300 lines per minute at 132 characters per line

Heavy-Duty, Reliable Printing

The 4247-V03 is a professional industrial heavy-duty printer with metal covers and a workload capacity of up to 64,000 pages per month. The 18-wire print head provides reliable printing on up to 8-part forms in DP, DP Text, and NLQ print modes.

Flexible Forms Handling

The IBM 4247 Printer provides exceptional forms-handling flexibility. The base printer includes one continuous-forms tractor path, and a second continuous-forms front tractor paper path is optional. No rear tractor path is available.

This dual front paper path capability can translate into a single printer performing work that formerly required two or more printers. Users can load different forms into each tractor path and then enable the path that corresponds to the desired print job.

Print Quality Comparison

Fast Draft is a new print quality for the IBM 4247 that is available only on the Model V03. The Data Processing (DP), Data Processing Text (DP Text), Near Letter Quality (NLQ), OCR-A, and OCR-B print qualities on the 4247-V03 are equivalent in character size, shape, and resolution to the print qualities available on the 4247 Model A00, 001, 002, and 003 printers.

The following table summarizes the print quality for Fast Draft, DP, DP Text, and NLQ.

Print Quality	Horizontal dpi	Vertical dpi	Horizontal Cell Size (Dots)	Vertical Cell Size (Dots)
Fast Draft	45	72	9	9
DP	60	72	12	9
DP Text	100	72	20	9
NLQ	100	144	20	18

Operator Panel

The 4247-V03 includes the same full-function, full-size operator panel as today's Model 003. It includes a 2 line by 40 character display, making messages and menus easy to understand.

Printer Data-Stream Emulations

Emulation modes to easily replace many older printers include:

- ASCII emulation for the IBM Proprinter III XL, IBM 2381 Personal Printer, and Epson FX printers
- Coax emulations for the IBM 3268, IBM 3287, IBM 4224, and IBM 4230
- Twinax emulations for the IBM 4214, IBM 4224, and IBM 4230

In addition, native IBM 4247 mode is selectable with each attachment.

Parallel Attachment

The IBM 4247 Model V03 base printer includes a parallel port as standard. For the parallel port:

- Printers emulated are Proprinter III XL, IBM 2381 Personal Printer, and Epson FX80 — 1170.
- Data streams supported are PPDS and Epson FX.

Optional Twinax and Coax SCS Attachment Features

The optional Coax SCS Attachment:

- Emulates the IBM 3268/3287, IBM 4224, and IBM 4230 as well as providing native support for the IBM 4247
- Supports 3270/DSC/DSE and SCS data streams

The optional Twinax SCS Attachment:

- Emulates the IBM 4214 and IBM 4230
- Supports the PDS data stream

Each attachment also supports native IBM 4247 mode.

Optional Twinax and Coax IPDS Attachment Features

With the Coax IPDS Attachment (#4240, #4242) and Twinax IPDS Attachment (#4220, #4222), the 4247-V03 can be driven by Advanced Function Presentation™ (AFP™) applications supported by Print Services Facility™ (PSF) and GDDM®.

Optional Ethernet LAN Attachment Capability

Direct LAN attachment to Ethernet 10/100BASE-T LANs is provided via the Ethernet 10/100BASE-T LAN Attachment features (#4260, #4262).

The Ethernet 10/100BASE-T LAN Attachment features use both the parallel port and the optional attachment port of the printer. Therefore, when using these attachments, the 4247-V03 supports only Ethernet 10/100BASE-T. IPDS support is not provided by these Ethernet LAN features. For IPDS Ethernet, the Ethernet IPDS RPQ 8B4314 must be used.

Optional Network Print Server and IPDS LAN Attachment Capability

Other LAN attachment capability is available via:

- The Network Print Server features (#4121, #4124, #4164, #4165) provide network attachment via the parallel port for Token-Ring and Ethernet. The Network Print Servers plug into the printer parallel port.
- The I-Data 7913 (RPQ numbers 8B4313 and 8B4314) provides either Token-Ring or Ethernet LAN attachment for IPDS data for twinax and coax printers.

RPQ 8B4313 provides either 4 or 16 MBps Token-Ring IPDS support. RPQ 8B4314 provides Ethernet IPDS support.

The Network Print Server features plug into the parallel port of the printer to provide support for the following environments:

- Novell NetWare
- IBM LAN Server
- AIX®
- Other TCP/IP networks

The Network Print Server and the above RPQs provide the capability for both LAN support and twinax, coax, or serial support on the same IBM 4247 Printer.

While a Network Print Server and one of the I-Data 7913 RPQs (either RPQ 8B4313 or 8B4314) can both be installed on the same 4247-V03, only one of either the Network Print Server or the I-Data 7913 RPQ network attachments can be active at any time. Manual network switching between the ASCII (Network Print Server) and IPDS (I-Data RPQ) is required to switch between the attachments.

Existing IBM 4247 Model A00, 001, 002, and 003 RPQs

No existing IBM 4247 RPQ presently available for the IBM 4247 Models A00, 001, 002, and 003 (except 8B4313 and 8B4314 described above) is presently available for the Model V03. Submit RPQ requests if an RPQ is needed.

Replacement, Addition, and Installation of Attachment Cards for Installed Printers

The following table shows the allowable replacements and additions of attachment cards for installed IBM 4247-V03 Printers, and the feature to order to replace or add an adapter. All of these replacements and additions are easily installed by customers, and do not require IBM Field Engineering for installation.

Installed Attachment Adapter¹	Replace with	Feature Number to Order
Any Attachment	Twinax SCS	4212
Any Attachment	Twinax IPDS	4222
Any Attachment	Serial	4252
Any Attachment	Ethernet LAN	4262
Any Attachment	Coax IPDS	4242
Any Attachment	Coax SCS	4232

¹ "Any Attachment" is Twinax IPDS, Twinax SCS, Coax SCS, Coax IPDS, Serial, or Ethernet LAN, and includes "no attachment," which is the standard parallel adapter.

Bulk Order for Optional Features

For most products, the quantity of any feature that can be ordered is the same as the maximum number of the feature allowed per machine. Since the IBM 4247-V03 features are all customer-installable, in some cases it is desirable to bulk order certain features so that machines can be easily reconfigured by Business Partners and end users. Thus, for 4247-V03 MES features, the maximum order quantity is normally 10, which is greater than the maximum that can be installed on one printer.

The maximum number of initial-order attachment features that can be ordered is one. Use the MES feature numbers for bulk orders.

IBM 4247-V03 Delivery Dates

It is expected that the demand for the Model V03 will exceed the available supply during fourth quarter 2002. Orders will be fulfilled sequentially based on order date.

Product Positioning

The IBM 4247-V03 is a professional industrial printer that offers a faster print speed and a more rugged design than the current IBM 4247 models of serial matrix printers.

Statement of General Direction

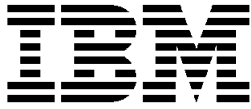
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IBM US Announcement Supplemental Information

October 22, 2002

Technical Description

- High speed:
 - Fast Draft print speed of up to 1,100 characters per second (cps)
 - DP print speed of up to 800 cps
 - DP Text print speed of up to 480 cps
 - NLQ print speed of up to 240 cps
- Heavy duty with a workload capacity of up to 64,000 pages per month
- Ethernet and Token-Ring LAN attachment
- Twinax and coax attachment
- Serial RS-232 and RS-422 port and Centronics-compatible PC Parallel and 1284 Bidirectional Parallel attachment
- IBM 4202 Proprinter III XL, IBM Personal Printer 2381, and Epson FX (FX 80-1050 and DFX 5000/8000) emulation modes for parallel, serial, and LAN attachment
- IBM 3268, IBM 3287, IBM 4224, and IBM 4230 emulation for coax attachment
- IBM 4214, IBM 4224, and IBM 4230 emulation for twinax attachment
- Native mode 4247-V03 drivers for AIX® and OS/400® environments, shipped on diskette with the printer
- Native mode 4247-V03 drivers for Windows 95/98, Windows NT®, Windows® 2000, Windows Me, and Windows XP, available for downloading on the IBM Printing Systems Web page:

<http://www.ibm.com/printers>

- Downloadable font support (IBM Proprinter or Epson)
- Resident bar codes — accessible via PPDS control using 4247 native mode commands and IPDS™ in coax and twinax:
 - Code 3-of-9
 - UPC-A and UPC-E
 - EAN-8 and EAN-13
 - UPC/EAN Supplemental encodings (2 and 5 characters)
 - Matrix 2-of-5
 - Industrial 2-of-5
 - Interleaved 2-of-5
 - MSI
 - Code 128

- Codabar
- Postnet
- Maximum text print resolution of 200 x 144 dots per inch at 20 characters per inch Near Letter Quality (NLQ) mode
- Maximum graphics print resolution of 240 x 144 dots per inch
- LAN connectivity
 - Internal Ethernet 10/100BASE-T adapter
 - Network Print Server features
 - RPQs for IPDS data on the twinax or coax ports to attach to Token-Ring and Ethernet

Hardware Requirements

The IBM 4247 Model V03 attaches to:

- Ethernet networks via the internal Ethernet 10/100BASE-T adapter or the Network Print Server features
- Token-Ring networks via the Network Print Server features
- IBM Personal Computer ports or to a Token-Ring or Ethernet LAN via one of these computers
- IBM-compatible PCs
- pSeries™ and RS/6000® workstations (excluding POWERserver® 930)
- iSeries™ and AS/400® twinax terminals including IBM 348x InfoWindow® II display stations, the IBM 3477 InfoWindow display station, and the IBM 3197 display workstation

The SCS coax interface (#4230) and the IPDS coax interface (#4240, #4242) will attach to:

- IBM 3174 Controller — Terminal port (using Release A5.5 or later, Release B4.0 or later, or Release C6.0 or later)

The twinax SCS interface (#4210, #4212) will attach to:

- iSeries and AS/400 systems
- IBM System/36™
- IBM 5394 and IBM 5494 Control Units

The twinax IPDS interface (#4220, #4222) will attach to:

- iSeries and AS/400 systems
- IBM 5394 and IBM 5494 Control Units

The Serial Attachment (#4250, #4252) will attach using RS-232C to:

- IBM AS/400 ASCII workstation controller
- IBM 3174 controller via the Asynchronous Emulation Adapter

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- IBM 3482 InfoWindow II display
- IBM pSeries and RS/6000
- IBM Personal Computer COMx ports
- IBM-compatible PCs utilizing an RS-232C interface

The Serial Attachment (#4250, #4252) will attach using RS-422A to:

- IBM RS/6000 and pSeries
- IBM AS/400 ASCII workstation controller

The attachment and data-stream support provided by the Ethernet LAN Attachment (#4260, #4262) is similar to that provided by the 10BASE-T Ethernet Network Print Server (#4164). However, the Ethernet LAN Attachment will operate on both 10- and 100-megabit Ethernet LANs.

Publications

The following 4247 Model V03 publications are shipped with each printer:

- Model V03: Quick Setup Guide (hardcopy — English)
- IBM 4247 Model V03: Safety Information
- IBM 4247 Model V03: Warranty Information
- A CD-ROM that contains softcopy in the languages listed below of the following publications:
 - IBM 4247 Model V03: User's Guide
 - IBM 4247 Model V03: Programmer's Reference
 - IBM 4247 Model V03: Safety Information
 - IBM 4247 Model V03: Warranty Information
 - Model V03: Quick Setup Guide

The CD contains the above publications in the following languages: English, French, Brazilian-Portuguese, German, Italian, Spanish, Danish, Dutch, Finnish, Norwegian, Swedish, Arabic, Chinese-Traditional, Chinese-Simplified, Czech, Hungarian, Polish, Russian, Turkish.

This CD can also be ordered using form number SK2T-9359.

All of the above publications are also available in the IBM Printing Systems Digital Library that can be accessed from the following Web site:

<http://www.ibm.com/printers>

Select "Manuals."

The *Quick Setup Guide* is also available as hardcopy. The table below shows the form numbers for selected languages.

Language	Quick Setup Guide
English, French, Brazilian-Portuguese, German, Italian, Spanish	S544-5859
Danish, Dutch, Finnish, Norwegian, Swedish	S544-5860
Arabic, Chinese-Traditional, Czech, Hungarian, Polish, Russian, Turkish	S544-5861

The *User's Guide* contains the following sections:

- Getting Started
- Understanding the Operator Panel

- Printer Configuration Menus
- Setting Up Different Forms Paths
- Problem Solving
- Printer and Form Specifications

The Publication Notification System (PNS) is available by order number or product number. Customers currently subscribing to PNS will automatically receive notifications by e-mail. Customers who wish to subscribe can visit the PNS Web site location at:

<http://www.ibm.com/shop/publications/pns/>

The publications listed on the notification can be ordered by calling the Pubs Support Group in Raleigh at 800-879-2755, option 1.

The IBM Publications Center Portal:

<http://www.ibm.com/shop/publications/order>

The Publications Center is a WW central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided, as well as payment options via credit card. Furthermore, a large number of publications are available online in various file formats, which can currently be downloaded free of charge.

Note that PNS subscribers most often order their publications via the Publications Center.

Technical Information

Specified Operating Environment

Physical Specifications

- Dimensions in base configuration:
 - Width: 720.0 mm (28.3 inches)
 - Depth: 400.0 mm (15.8 inches)
 - Height: 350.0 mm (13.8 inches)
 - Weight: 33.0 kg (72.6 pounds)
- Cabinet Printer Stand (#4462):
 - Top Surface Width: 726 mm (28.6 inches)
 - Top Surface Depth: 411 mm (16.2 inches)
 - Top Surface Height: 775 mm (30.5 inches)
 - Weight: 44.5 kg (98.1 pounds)
 - Footprint with Output Tray Attached: 726 mm (W) x 792 mm (D) or 28.6 inches wide x 31.2 inches deep

Operating Environment

Input Voltage Required: Input voltages required for 4247-V03 Universal Power Supply:

- 100 — 127 V ac single-phase grounded 50/60 Hz
- 200 — 240 V ac single-phase grounded 50/60 Hz

Printer Heat Output

- 22 watts (75 Btu/hr) — Idle (100 V — 240 V)
- 215 watts (734 Btu/hr) — Normal operation
- 450 watts (1,536 Btu/hr) — Maximum (100 V — 240 V)

Operating Environment Requirements

- Temperature: 10° to 40°C (50° to 104°F)
- Relative Humidity: 10% to 90%
- Max Wet Bulb: 27°C (81°F)

Noise Emission

	Operating	Idle
4247-V03 base printer:		
Sound power level (LWAd):	7.1 bels	0.0 bels
Sound pressure level (LpAm):	56.3 dBa ²	0.0 dBa

² Measured in DP Text mode

EMC Compliance: The IBM 4247 meets the following standards:

- Class A of FCC rules part 15
- Class A of CE EN55022(1998)+A1, EN55024, EN6100-3-2+A14, EN6100-3-3

- Class A of Canadian ICES-003
- Class A of Australian/New Zealand AS/NZS 3548
- Class A of Russian GOST

Safety Compliance: The IBM 4247 meets the following standards:

- UL 1950, 3rd edition
- TUV, EN60950/All (1999)
- CSA, C22.2 No.950-95
- Russian GOST
- Mexico NOM
- Argentina IRAM

Software Requirements

System Support via Parallel Attachment: The 4247-V03 can use the IBM Personal Printer Data Stream (PPDS) in IBM 4202 Proprinter III XL or IBM 2381 Personal Printer emulations by choosing the corresponding device driver for the systems listed below.

In Epson FX emulation mode the 4247-V03 can print files coded for the Epson FX-1050 using the Epson ESC/P printer control language.

Also, native 4247 support is provided for AIX and the Host Print Transform function in OS/400. The following systems support the 4247-V03:

System	Software — Minimum Level	Emulation
Personal Computers	Microsoft™ Windows 3.0 and later	PPDS or Epson FX
RS/6000 and pSeries	AIX Version 3.2.5 and later	PPDS or Epson FX
AS/400 and iSeries ³	OS/400 V4.5 and later PC Support/400 W/S Function V2.2 Client Access/400 V3.1 Personal Communication for AS/400 for Windows V4.0 Personal Communication for AS/400 for OS/2® V4.0 IBM 5250 Enhanced Emulation for Windows V1.1 IBM 5250 Enhanced Emulation for DOS V2.4	PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX PPDS or Epson FX

³ Host selection of the print quality is limited to three of the four qualities (Fast Draft, DP, and NLQ). The host selection of Fast Draft and DP is dependent on the printer operator panel setting of the “Host Fast Draft enable/disable” switch. Fast Draft and DP are mutually exclusive in that only one can be active at a time.

Network Operating System Support via Parallel Attachment: The Network Print Server features are supported in the following environments:

Protocol	Operating System
IPX/SPX	Novell NetWare 3.11 and later Novell NetWare 4.01 and later using bindery emulation
TCP/IP	Novell NetWare 3.11 and later Novell NetWare 4.01 and later using bindery emulation
NetBIOS/NetBEUI TCP/IP	IBM LAN Server 1.3 and later IBM LAN Server 1.3 and later
NetBIOS/NetBEUI TCP/IP	Microsoft LAN Manager 2.0c and later Microsoft LAN Manager 2.0c and later
NetBIOS/NetBEUI TCP/IP	Windows NT 3.1 and later Windows NT 3.1 and later
TCP/IP	AIX 3.2.5 and later

Supported TCP/IP print methods are LPD, FTP, and Reverse Telnet.

IBM 4247-V03 Coax Software Support

IBM System or Controller	IBM Software (Minimum Release Level)	4247 Mode	4224/4230 Emulation	3268/3287 Emulation
zSeries™ and S/390®	Non-IPDS Mode			
	GDDM® V3.1	Yes	Yes ⁴	Yes
	VM/ESA® V2.1	Yes	Yes ⁴	Yes
	VM/RSCS V3.1	Yes	Yes ⁴	Yes
	VM/VTAM® V4.3	Yes	Yes ⁴	Yes
	MVS/ESA™ V4.2.0	Yes	Yes ⁴	Yes
	MVS™/VTAM V4.3	Yes	Yes ⁴	Yes
	VSE/ESA™ V1.3.3	Yes	Yes ⁴	Yes
	VSE/VTAM V3.4	Yes	Yes ⁴	Yes
	CICS/VSE® V2.2.0 ⁵	Yes	Yes ⁴	Yes
	IPDS Mode			
	GDDM V3.1	No	Yes	No
	GDDM V3.2	Yes	Yes	No
	PSF V3.1.0 for OS/390® and later	Yes	Yes ⁴	No
PSF/VM V2.1.1	No	Yes ⁴	No	
PSF/VSE V2.2.1	Yes ⁵	Yes ⁴	No	

⁴ Supported in 4224 mode only

⁵ Requires PTF UD50093 for PSF/VSE V2.2.1

IBM 4247-V03 Twinax Software Support

IBM System or Controller	IBM Software (Minimum Release Level)	4247 Mode	4230/4224 Emulation	4214 Emulation
iSeries and AS/400	Non-IPDS Mode			
	SSP Release 7.1	No	Yes ⁶	Yes
	OfficeVision/400™	Yes	Yes	Yes
	Business Graphics Util.	Yes	Yes	Yes
	GDDM	Yes	Yes	Yes
	CL and DDS	Yes	Yes	Yes
	IPDS Mode			
	OS/400 V4R5 and later	Yes	Yes	Yes
	GDDM	Yes	Yes	Yes
	Adv Funct. Print Ut V2.1	Yes	Yes	No
PSF/400 V4.5 and later	Yes	Yes	Yes	
zSeries and S/390	PSF V3.1.0 for OS/390 and later	Yes ⁷	Yes ^{6,7}	No

⁶ Supported in 4224 mode.

⁷ PSF for OS/390 will support a coax or twinax printer attached via the I-Data 7913 RPQ.

Coax or Twinax Attachment

Print Quality	Character Style	Character Spacing
Fast Draft	Gothic Essay	10 cpi
DP	Gothic Essay Proportional Space	10, 12, 15, and 16.7 cpi Approximately 11.5 cpi
DP Text	Courier Essay Proportional Space	10, 12, 15, and 16.7 cpi Approximately 11.5 cpi
NLQ	Courier Essay Proportional Space	10, 12, 15, and 16.7 cpi Approximately 11.5 cpi

Parallel or Serial Attachment

Print Quality	Character Style	Character Spacing
Fast Draft	Gothic Essay	10 cpi
DP	Gothic	10, 12, 15, 16.7, 17.1, and 20 cpi
	Gothic Italic Proportional Space	10, 12, 15, 16.7, 17.1, and 20 cpi
DP Text	Courier	10, 12, 15, 16.7, 17.1, and 20 cpi
	Courier Italic	10, 12, 15, 16.7, 17.1, and 20 cpi
	Proportional Space	10, 12, 15, 16.7, 17.1, and 20 cpi
NLQ	Gothic	10, 12, 15, 16.7, 17.1, and 20 cpi
	Gothic Italic	10, 12, 15, 16.7, 17.1, and 20 cpi
	Proportional Space	10, 12, 15, 16.7, 17.1, and 20 cpi
	Courier	10, 12, 15, 16.7, 17.1, and 20 cpi
	Courier Italic Proportional Space	10, 12, 15, 16.7, 17.1, and 20 cpi

Notes:

Proportional spacing on the coax or twinax attachment changes the characters per inch to approximately 11.5 cpi.

Proportional spacing on the parallel or serial port is a separate attribute and can be used at all cpi settings with each of the character styles listed above.

The above print quality levels and character styles will include all characters defined by the Resident Code Pages described above unless otherwise noted. Any quality level can be printed at either 6 or 8 lines per inch.

Limitations: The 4247-V03 has the following limitations:

- Fast Draft print quality mode supports printing at 10 characters per inch only. DP, DP Text, and NLQ print quality modes support 10, 12, 15, 16.7, 17.1, and 20 characters per inch.
- The front continuous-forms paper path will handle up to 8-part forms. Forms greater than 4-part should be tested for readability prior to use.
- No automatic sheet feed feature is available.
- The following ASCII restrictions apply when using IBM 4247 native escape commands to print barcode:
 - Current barcode applications that use barcode escape commands must be modified to use IBM 4247 native barcode commands.
 - Barcode printing is limited to picket orientation and 3 to 1 wide to narrow ratio when printed using native 4247 escape commands.

The 4247-V03 has the following additional limitations when emulating previous ASCII printers:

- The following commands and functions are not supported when replacing or adding to an existing IBM 4224 (Model 301, 302, 3E3), 4230 (Model 4xx or 5xx), or 4232 Model 302:
 - Begin/End Overstrike
 - Begin/End Understrike
 - Select Presentation Media
 - Set Presentation Position
 - Initialize/Delete Local Font
 - Select Local Character Set
 - Set Vertical Units
 - Graphic Segment List
 - Barcode

- Segment
- Overlays
- Graphic Mapping Control
- Read Printer Status
- The following functions are not supported when using the Epson FX 1050 driver, IBM 4202 Proprinter III XL, or IBM 2381 driver in OS/2 or Windows:
 - Barcode selection or printing
 - Load/park form paths
 - Data-stream emulation switching
 - Metric vertical line spacing
- The 4247-V03 does not support the following 4247-A00 operator panel settings:
 - Characters per inch (pitch) = 5, 6, 7.5, 8.5, proportional.
 - Lines per inch (lpi) = 12, 3L/30mm, 84L/30mm, 6L/30mm, 8L/30mm, 12L/mm.
 - Maximum page length for cut sheet forms = A5, A4, A3, LGL, LTR.
 - Parallel interface = 1284 nibble. (Note: Setting id is nonfunctional on A00.)
 - Data bits = 7.
 - Left margin alignment = 0 to 13.4 inches. (Model 003 left margin alignment is 0 to 1.875 inches.)
 - Top margin (top of form) = 0 to 660 lines. (Note: Paper load position range is -0.166 (-24/144) to 2 (+288/144) inches. To set top of form to larger values, the user must move form and press top-of-form key.)

- Impact = soft, strong. (Note: Impact force is always set to strong.)

Paper Handling

- Continuous Forms: The 4247-V03 will handle up to 8-part continuous forms in either front paper path.

For the Front Tractor Paths:

- Form weight can range from 56 grams per square meter (gsm) (15 lb) to 150 gsm (40 lb). Paper weights outside this range must be tested by the customer for proper operation.
- Overall (total) form thickness for all parts may range from 0.08 mm (0.003 in) to 0.64 mm (0.025 in).

The following forms widths and lengths are supported:

- Form width from 76.2 mm (3 in) to 431.8 mm (17 in)
- Form lengths from 76.2 mm (3 in) to 609.6 mm (24 in)

Forms less than 152.4 mm (6 in) in length or width should be tested for satisfactory stacking and may require operator assistance.

Planning Information

Cable Orders: Cables are ordered by feature number.

Supplies

Ordering Supplies: IBM Printing Supplies are distributed by Priority Fulfillment Services (PFS) and a worldwide network of dealers. End users can contact PFS at 888-IBM-PRINT (888-426-7746) for the name of an IBM reseller in their area where IBM 4247 ribbons can be purchased.

Resellers can mail or fax orders to PFS at:

Priority Fulfillment Services
500 North Central Expressway
Plano, TX 75074
Fax: 972-881-9201
Telephone: 888-IBM-PRINT (888-426-7746)

IBM 4247 V Series Ribbon: This customer-replaceable cartridge ribbon supports general-purpose printing as well as automatic identification printing for visible light scanning.

- Part Number: 57P1743
- Number of Ribbons per Box: One
- Number of Boxes per Part Number 57P1743: One
- Expected Life: 20 million DP characters
- Estimated Annual Usage: 12 ribbons

Warranty for all supplies is one year from the date of purchase stated on the purchase receipt.

Material Safety Data Sheets (OSHA Form 20) for supplies with the IBM logo are available in the U.S. by calling 800-IBM-4333 (426-4333). You will need to provide the seven-digit part number or the machine model number, and supply type, for example IBM 4247-V03. Outside the U.S., contact your local supplier.

Security, Auditability, and Control

This product uses the security and auditability features of the host.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Terms and Conditions

This product is available for purchase under the terms of the IBM Customer Agreement.

IBM hardware products are manufactured from new parts, or new and used parts. In some cases, the hardware product may have been previously installed.

Regardless, IBM warranty terms apply.

IBM Global Financing: Yes

Warranty Period: Three months

Warranty Service: IBM On-Site Repair (IOR)

Maintenance Service: IOR

Usage Plan Machine: No

IBM Hourly Service Rate Classification: Two

Mid-Range System Option

Eligible Types	Discount	
	Three-Year	Five-Year
4247	3%	5%

Corporate Service Option

System	Discount	
	Three-Year	Five-Year
System	3%	5%

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

Rental Offering: No

Field-Installable Features: Yes

Model Conversions: No

Customer Setup: Yes

Graduated Charges: No

Educational Allowance: A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

Prices

Description	Machine Type	Model	Feature Number	Annual Maintenance Charge	Purchase Price
Serial Matrix Printer	4247	V03		\$900	\$3,595
<i>Features</i>					
Printer Hardware Features					
Additional Tractor Assembly			4003		199
Cabinet Printer Stand			4462		700
Attachment Features					
Twinax SCS (Initial Order)			4210		700
Twinax SCS (MES)			4212		700
Twinax IPDS (Initial Order)			4220		1,300
Twinax IPDS (MES)			4222		1,300
Coax SCS (Initial Order)			4230		700
Coax SCS (MES)			4232		700
Coax IPDS (Initial Order)			4240		1,300
Coax IPDS (MES)			4242		1,600
Serial (Initial Order)			4250		49
Serial (MES)			4252		49
Ethernet LAN (Initial Order)			4260		429
Ethernet LAN (MES)			4262		429
Network Print Server Features					
Token-Ring Type 1			4121		529
Token-Ring Type 3			4124		529
Ethernet 10BASE-T			4164		429
Ethernet 10BASE2			4165		429
12 Volt AC Adapter for U.S.			7701		0
12 Volt AC Adapter for United Kingdom			7702		0
12 Volt AC Adapter for Europe			7703		0
12 Volt AC Adapter for Australia			7705		0
Optional Cables					
RS/6000 RS-232 Serial			3741		65
AS/400 RS-232 Serial (40 ft)			4342		123
AS/400 RS-232 Serial (100 ft)			4346		185
PC Parallel 1284 Parallel Bidirectional (15 ft)			5612		48
PC RS-422 Serial			5614		50
PC RS-422 Serial			8652		63
PC RS-232 Serial Cable (20 ft)			9386		47

Description	Feature Number	Plant Install Only	Field Install Only
Additional Front Tractor (V03)	4003	No	No
Cabinet Printer Stand (V03)	4462	No	No
Attachment Features			
Twinax SCS Attachment (Initial Order)	4210	Yes	No
Twinax SCS Attachment (MES)	4212	No	Yes
Twinax IPDS Attachment (Initial Order)	4220	Yes	No
Twinax IPDS Attachment (MES)	4222	No	Yes
Coax SCS Attachment (Initial Order)	4230	Yes	No
Coax SCS Attachment (MES)	4232	No	Yes
Coax IPDS Attachment (Initial Order)	4240	Yes	No
Coax IPDS Attachment (MES)	4242	No	Yes
Serial Attachment (Initial Order)	4250	Yes	No
Serial Attachment (MES)	4252	No	Yes
LAN Attachment (Initial Order)	4260	Yes	No
LAN Attachment (MES)	4262	No	Yes
Optional Cables			
RS/6000 RS-232 Serial Cable	3741	No	No
AS/400 RS-232 Serial Cable (40 ft)	4342	No	No
AS/400 RS-232 Serial Cable (100 ft)	4346	No	No
PC Parallel Cable	5612	No	No
1284 Parallel Bidirectional Cable (15 ft)	5614	No	No
PC RS-422 Serial Cable	8652	No	No
PC RS-232 Serial Cable (20 ft)	9386	No	No
Network Print Server Features			
Network Print Server Token-Ring Type 1	4121	No	No
Network Print Server Token-Ring Type 3	4124	No	No
Network Print Server Ethernet 10BASE-T	4164	No	No
Network Print Server Ethernet 10BASE2	4165	No	No
12 Volt AC Adapter for U.S.	7701	No	No
Power Cord Options			
Specify for 6-Foot Chicago Cord	9250	Yes	No
Specify for 9-Foot U.S. Cord	9251	Yes	No
Publication Language Feature Numbers			
English, Brazilian-Portuguese, French, German, Italian, Spanish	9960	Yes	No
Danish, Dutch, Finnish, Swedish	9961	Yes	No
Arabic, Chinese Simplified, Hungarian, Polish, Russian, Turkish	9962	Yes	No
Operator Panel Overlay — English	9980	Yes	No
Operator Panel Overlay — French (Canada)	9981	Yes	No
Operator Panel Overlay — German	9991	Yes	No
Operator Panel Overlay — Spanish	9983	Yes	No
Operator Panel Overlay — Italian	9984	Yes	No
Operator Panel Overlay — Brazilian Portuguese	9985	Yes	No
Operator Panel Overlay — Danish	9986	Yes	No
Operator Panel Overlay — Dutch	9987	Yes	No
Operator Panel Overlay — Finnish	9988	Yes	No
Operator Panel Overlay — Swedish	9989	Yes	No
Operator Panel Overlay — Norwegian	9990	Yes	No

For ServiceElect (ESA) Maintenance Service Charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

Global Financing: IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Our offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit the Web at:

<http://www.ibm.com/financing>

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You can also contact your local IBM Business Partner or IBM representative. To identify them, call 800-IBM-4YOU.

Note: Shipments will begin after the planned availability date.

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