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Infoprint 4000-IS1 and 4000-IS2 Printers (4000-IS1 and 4000-IS2)

This section describes the Infoprint 4000-IS1 and 4000-IS2 printer characteristics. The Infoprint 4000-IS1 and 4000-IS2 are continuous-forms printers that use laser and electrophotographic technology to print text, images, graphics, and bar codes at up to 229 impressions per minute (ipm) for the Infoprint 4000-IS1 printer and 324 impressions per minute (ipm) for the Infoprint 4000-IS2 printer.

Figure 33. Infoprint 4000-IS1 and 4000-IS2 Printers



[Table 133](#) summarizes the printer characteristics for the Infoprint 4000-IS1 and -IS2 printers.

Table 133. Infoprint 4000-IS1 and 4000-IS2 Printer Characteristics

Printer Characteristic	Infoprint 4000-IS1 Printer	Infoprint 4000-IS2 Printer ¹
	Characteristic Value	
Print technology	Laser	
Datastreams	IPDS	

Form type	Continuous	
Number of input bins	Up to 16 inch (406 mm) stack of paper (box)	
Number of output bins	Up to 14 inch (356 mm) stack of paper	
Finisher attachments	n/a	
Manual forms feed	n/a	
Envelope printing	n/a	
MICR printing *With either RPQ 8B4013 or 8B4018 installed	yes*	
Duplex printing	no	
Highlight Color *With the IBM 4005 Infoprint Hi-Lite Color printer attached ²	yes*	
Adjust print-quality levels	yes	
Print resolution	240 dpi 300 dpi	
Maximum printing rates for letter (8.5 x 11 inches)		
inches per second	32.5	46
inches per minute	1,950	2,760
Maximum printing rates for letter in pages per minute ³		
1-up landscape (8.5 inches long) simplex	229	324
1-up landscape (8.5 inches long) duplex	n/a	
2-up portrait (11 inches long) simplex	354	501
2-up portrait (11 inches long) duplex	n/a	
Maximum printing rates for A4 (210 x 297 mm)		
mm per second	825	1168
mm per minute	49,530	70,104
Maximum printing rates for A4 in pages per minute ³		
1-up landscape (210 mm long) simplex	235	330
1-up landscape (210 mm long) duplex	n/a	
2-up portrait (297 mm long) simplex	333	472
2-up portrait (297 mm long) duplex	n/a	
Maximum usage in pages per month (duty cycles) ⁴		
Letter: 1-up landscape (8.5 inches long)	5,600,000 simplex	8,000,000 simplex
Letter: 2-up landscape 11 inches long)	8,700,000 simplex	12,300,000 simplex
A4: 1-up landscape (210 mm long)	5,700,000 simplex	8,100,000 simplex
A4: 2-up landscape (297 mm long)	8,200,000 simplex	11,500,000 simplex
<ol style="list-style-type: none"> 1. The 4000-IS2 printer was originally shipped with a print speed of 44 inches per second. All 4000-IS2 printers shipped after February 17, 1998 (or with upgrades 9324 or 4260 installed) have a print speed of 46 inches per second. 2. The Infoprint 4005 Hi-Lite Color post-processor provides a high-speed, high-quality, all-points-addressable (APA) color printing system to complement the industry-leading quality and reliability the IBM Infoprint 4000 Wide or Wide Duplex printers (240 dpi models). Visit the IBM Printing Systems Inter page at http://www.ibm.com/printers for more information about the Infoprint 4005. 3. Maximum printing rate is the maximum number of pages of the indicated size and configuration that can be printed at the constant speed of paper movement shown for each printer. Rates for pages of different sizes and configuration can be calculated by dividing the form length into the printer speed. Actual printing rate will be less if the printer cannot reach this rate due to complexity or density of the data or the ability of the system to deliver data at this rate. 		

4. Maximum usage is based on operating 7 days a week, 24 hours a day, at maximum printing rate with normal maintenance and operations activity. IBM does not recommend reaching this monthly maximum on consistent basis.

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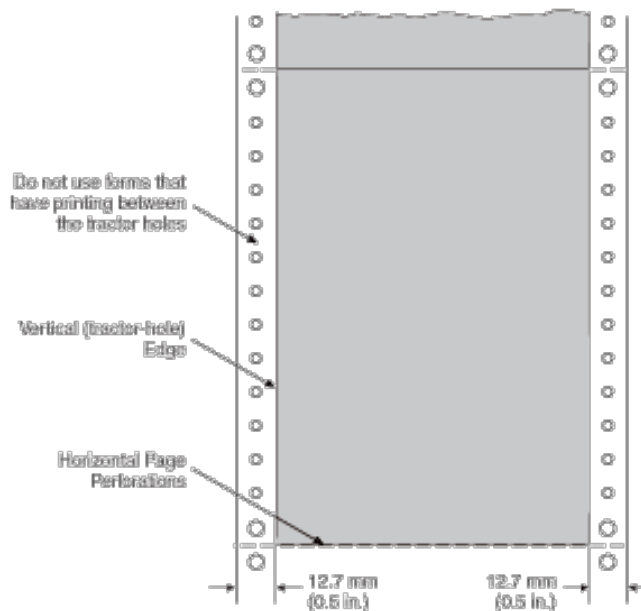
Printable Area

The printer can print to the horizontal page perforations and within ½-inch (12.7 mm) of either vertical (tractor hole) edge of the form. See [Figure 34](#).

Print quality may be degraded when printing near folding perforations, an internal perforation, or any cut in the form. To ensure correct operation and print quality, maintain the following distances:

- From non-folding and internal perforations: 0.05-inch (1.27 mm)
- From folding perforations: for text, OCR, and bar codes: 0.33-inch (8.5 mm); for images and solid-area fill: 0.05-inch (1.27 mm)
- From binder holes and cuts: 0.1 inch-(2.54 mm).

[Figure 34. Printable Area on the Infoprint 4000-IS1 and 4000-IS2 Printers](#)



Refer to the *Continuous Forms Advanced Function Printers: Forms Design Reference*, G544-3921.

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Media Specifications

The Infoprint 4000-IS1 and 4000-IS2 printers accept the following media:

Media types:

Preprinted or blank fanfold forms, roll feed paper, some labels

Media widths:

8 inches to 18 inches (203 to 457 mm)

Media lengths:

3 inches to 14 inches (76 to 356 mm) standard; up to 28 inches (711 mm) with RPQ (additional memory required)

Media weights:

Model IS1

16 to 42 lbs. (60 to 160 gsm)

Model IS2

16 to 42 lbs. (60 to 160 gsm)

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Attachments

The Infoprint 4000-IS1 and 4100-IS2 printers support a maximum of two attachments. These attachments can be:

- System/370 parallel channel
- ESCON channel
- Token Ring (TCP/IP)
- Ethernet (TCP/IP)
- FDDI (TCP/IP)
- Gigabit Ethernet
- FICON

The two attachments may be the same (for example, 2 ESCON channels), or mixed (for example, 1 ESCON and 1 Token-Ring). The exception is that the printer can have only 1 TCP/IP attachment of any flavor. You cannot have 2 Token-Ring or 2 FDDI attachments, or a combination of 1 Token-Ring or 1 FDDI attachments.

When printing in duplex configuration, only one attachment can be active at a time. If both attachments are to the same system, or to a tightly-coupled system, and the attachments are of the same type (example, both are ESCON or both are parallel channel), then switching between the two attachments can be performed dynamically by the host system. If the attachments or host differ, or the hosts are not tightly-coupled, then the switch must be performed manually by the operator. The printer must be disabled from the current system and attachment before it can be enabled to the other attachment.

System/370 Parallel Channel

For S/370 parallel channel attachment, a control unit position on a S/370 parallel block multiplexer channel is required on an IBM 4361, 4381, 3090, ES/9370, or ES/9000 processor. The following processors are also supported for S/370 parallel channel attachment, Parallel Enterprise Server Models R1, R2, and R3 S/390 G3 Enterprise Server, and the S/390 Multiprise 2000. Attachment is also supported via the 9034 ESCON converter model 1. The S/370 Channel is supported in MVS, VM, and VSE operating system environments.

ESCON Channel

The IBM Infoprint 4000-IS1 and 4000-IS2 may be attached natively to ESCON channels. Note that when attached via ESCON, the IBM Infoprint 4000-IS1 and 4000-IS2 is supported on the MVS, VM, and VSE operating systems only. The IBM Infoprint 4000-IS1 and 4000-IS2 may also be attached to selected PS/2, RS/6000, AS/400 models using Token-Ring (TCP/IP), or Ethernet (TCP/IP). Attachment is also supported via the 9032/9033 ESCON Directors, and 9036 ESCON Remote Channel Extender.

Token-Ring (TCP/IP) Attachment

The IBM Infoprint 4000-IS1/IS2 is connected to the host Token-Ring through the IBM Token-Ring cabling via the Token-Ring High-Performance adapter, which is contained in the AFCCU. The attachment card and token-ring adapter cable P/N 53F3930 (approximately 4.6 m (15 ft)) in length are included with the IBM Infoprint 4000-IS1/IS2. The control unit can be attached to either a 16Mbit/sec or a 4Mbit/sec Token-Ring LAN. The TCP/IP Token Ring Attachment will attach to the following devices:

- 8228 Token Ring Multistation Access Unit attached to an AS/400, PS/2, or RS/6000 processor.

- 8230 Token Ring Network Controller Access Unit attached to an AS/400, PS/2, or RS/6000 processor.
- 8228 Token Ring Multistation Access Unit attached to a 3172, 3174, 3745, 3725 or 3720 attached to a 3090, ES/9000, 308X or 4381 processor.
- 8230 Token Ring Multistation Access Unit attached to a 3172, 3174, 3745, 3725, or 3720 attached to a 3090, ES/9000, 308X or 4381 processor.

The printer may be located at a maximum distance of 100 meters (333ft.) from the 8228 Multistation Access Unit or 8230 Controlled Access Unit. The distance between the 8228 Multistation Access Units can be increased with either the 8220 or 8219 Optical Fiber Repeater.

Ethernet (TCP/IP) Attachment

An Ethernet Adapter Card (P/N 00G3369) is supplied with Specify Feature 9990 and Special Feature 4161. This is installed in the processor of the AFCCU of the IBM Infoprint 4000-IS1/IS2. The IBM Infoprint 4000-IS1/IS2 may then be attached to an Ethernet LAN via one of the following means:

- Ethernet Thin Coax
 - IBM Supplies a Thin Coax wrap connector (P/N 02G7433)
- Ethernet Thick Coax
 - IBM Supplies the Thick Coax wrap connector (D-shell connector; P/N 71F1167)
- Ethernet Twisted Pair
 - IBM Supplies a Twisted Pair Transceiver (P/N 00G2906)
 - IBM Supplies a Twisted Pair Wrap plug (P/N 00G2380)

FDDI (TCP/IP) Attachment

The FDDI (TCP/IP) attachment is supported in Infoprint Manager for AIX and Infoprint Manager for NT and 2000 printing environments.

The Infoprint 4100 printers are connected to the host FDDI through FDDI 62.5/125 multimode fiber cabling using SC connectors by way of the FDDI Single Station adapter that is contained in the AFCCU.

The FDDI (TCP/IP) attachment attaches to the following devices:

- Directly to the RS/6000
- 8260 Multiprotocol Intelligent Switching Hub attached to a RS/6000 processor.

The printers may be located at a maximum distance of 2 kilometers from the 8260 Multiprotocol Intelligent Switching Hub or RS/6000 processor.

Gigabit Ethernet Attachment

The Gigabit Ethernet attachment is supported in Infoprint Manager for AIX printing environments. The Infoprint 4000 printers are attached to the Ethernet LAN by way of a 62.5 mm SC fiber optic cable.

FICON Attachment

FICON channel attachment is supported in the PSF for OS/390 printing environments. The Infoprint 4000 printers may be attached natively to IBM FICON Channels (9672-G5, 9672-G6, and 900Z).