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Infoprint 3000-ES1 and 3000-ED1/ED2 Printers (3300)

This section describes the Infoprint 3000-ES1 and Infoprint 3000-ED1/ED2 printer characteristics. The Infoprint 3000 printers is are continuous forms printers that uses laser and electrophotographic technology to print text, images, graphics, and bar codes.

Figure 31. Infoprint 3000-ED1/ED2 Printer



[Table 132](#) summarizes the printer characteristics for the Infoprint 3000-ES1 and 3000-ED1/ED2 printers.

Table 132. Infoprint 3000-ES1 and 3000-ED1/ED2 Printer Characteristics

Printer Characteristic	Infoprint 3000-ES1 Printer	Infoprint 3000-ED1/ED2 Printer
	Characteristic Value	
Print technology	Laser	
Datastreams	IPDS	
Form type	Continuous	
Number of input bins	Up to 15.5 inch (394 mm) stack of paper	
Number of output bins	Up to 12 inch (305 mm) stack of paper	
Finisher attachments	n/a	
Manual forms feed	n/a	
Envelope printing	n/a	
MICR printing	no	
Duplex printing	no	
Color	no	
Adjust print-quality levels	yes	
Print resolution	480 dots-per-inch 600 dots-per-inch	
Maximum printing rates for letter (8.5 x 11 inches)		
inches per second	15.9	
inches per minute	954	
Maximum printing rates for letter in pages per minute ¹		
1-up landscape (8.5 inches long) simplex	114	

1-up landscape (8.5 inches long) duplex	n/a	228
2-up portrait (11 inches long) simplex		172
2-up portrait (11 inches long) duplex	n/a	344
Maximum printing rates for A4 (210 x 297 mm)		
mm per second		404
mm per minute		24,231
Maximum printing rates for A4 in pages per minute ¹		
1-up landscape (210 mm long) simplex		114
1-up landscape (210 mm long) duplex	n/a	228
2-up portrait (297 mm long) simplex		162
2-up portrait (297 mm long) duplex	n/a	324
Maximum usage in pages per month (duty cycles) ²		
Letter: 1-up landscape (8.5 inches long)	2,800,000 simplex	5,600,000 duplex
Letter: 2-up portrait (11 inches long)	4,400,000 simplex	8,800,000 duplex
A4: 1-up landscape (210 mm long)	3,000,000 simplex	6,000,000 duplex
A4: 2-up portrait (297 mm long)	4,000,000 simplex	8,000,000 duplex
<p>1. 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.</p> <p>2. 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.</p>		

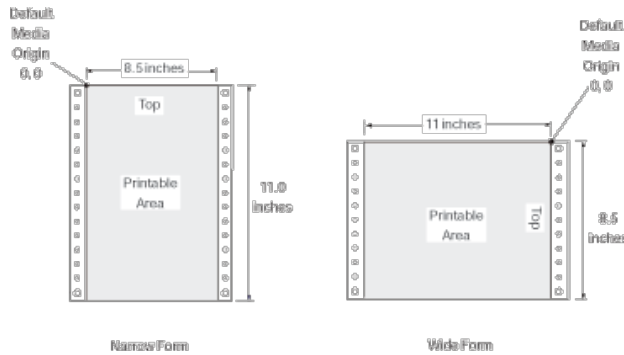
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Printable Area

The printable area depends on the size of the form being used. The Infoprint 3000-ES1 and 3000-ED1/ED2 printers can print from perforation to perforation when using roll forms. However, when printing on folded forms, the printing may be degraded in areas near a folded perforation, an internal perforation, or any cut in the form because of the "tenting" (*fold memory*) of the form.

[Figure 32](#) shows an example of the printable area of a standard, letter-size roll form for the Infoprint 3000. Notice that the media origin is located in different corners for wide and narrow forms. Although the maximum printable area for narrow forms is 8.5 by 17 inches, and the maximum printable area for wide forms is 17 by 17 inches, the examples show the printable area for letter-size forms.

[Figure 32. Printable Area on the Infoprint 3000-ES1 and 3000-ED1/ED2 Printers](#)



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Media Specifications

The Infoprint 3000-ES1 and 3000-ED1/ED2 printers accept the following media:

Media types:

Preprinted or blank fanfold forms, roll-feed paper

Media widths:

Model ES1

8 inches to 18 inches (203 mm to 457 mm)

Models ED1/ED2

9 inches to 18 inches (229 mm to 457 mm)

Media lengths:

7 inches to 14 inches (178 mm to 356 mm) standard; 7 inches to 28 inches (178 mm to 712 mm) with pre- and post-processing options

Media weights:

Model ES1

16 lb. to 42 lb. (60 gsm to 157 gsm)

Models ED1/ED2

Attachments

The Infoprint 3000-ES1 and 3000-ED1/ED2 support a maximum of two attachments. These attachments can be:

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

The two attachments may be the same (for example, two ESCON channels), or mixed (for example, one ESCON and one Token-Ring). The exception is that the printer can have only one TCP/IP attachment of any flavor. You cannot have two Token-Ring attachments, for example. For a single printer (a simplex printer, a duplex printing system, or a dual simplex printer), 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 channel (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

System/370 parallel channel attachment is supported on OS/390, PSF/MVS, PSF/VM, and PSF/VSE printing environments.

- For S/370 parallel channel attachment, a control unit position on a S/370 parallel block multiplexer channel is required on an IBM 3090^(TM) or ES/9000^(TM) processor.
- The following processors are also supported for S/370 parallel channel attachments: S/390 Parallel Enterprise Server, and the S/390 Multiprise 2000 servers.
- Attachment is also supported via the 9034 ESCON Converter Model 1.

ESCON Channel

ESCON channel is supported on OS/390, PSF/MVS, PSF/VM, and PSF/VSE printing environments.

- The IBM Infoprint 3000-ES1 and 3000-ED1/ED2 may be attached natively to IBM ESCON channel (3090-J, 9021, 9121, 9221, 9672, 2003).
- Attachment is also supported via the 9032/9033 ESCON Directors and 9036 ESCON Remote Channel Model 1 and Model 2.

The ESCON attachment may be shared between different ESCON systems or different ESCON multiple image facility (EMIF) images, if ALL host systems connected to the printer are using the OS/390 (V1R3.0 or higher) operating system and ALL of the PSF/MVS applications in those systems have the APAR OW29992 installed. Such OS/390 systems can be guests of VM/ESA.

When these conditions are met for ESCON then the multihost flag can be set to "TRUE" in the printer. This will automatically invoke the protocol allowing the printer to print only one host (or OS/390 guest of VM) at a time. When the first host is printing the second host will receive an "assigned elsewhere" message until the first host is finished printing and releases the printer.

Token-Ring (TCP/IP) Attachment

Token-Ring (TCP/IP) attachment is supported on PSF/400, PSF for AIX, and Infoprint Manager for AIX printing environments along with selected RS/6000 and AS/400 models. The 3000-ES1 and 3000-ED1/ED2 are 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 control unit can be attached to either a 16 Mbit/sec or a 4 Mbit/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 or RS/6000 processor
- 8230 Token Ring Network Controller Access attached to an AS/400 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, or 308X processor
- 8230 Token Ring Multistation Access Unit attached to a 3172, 3174, 3745, 3725, or 3720 attached to a 3090, ES/9000, or 308X processor

The printer may be located at a maximum distance of 100 meters (328 ft) 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.

- Installation Instructions are provided with the feature.

Ethernet 10/100 BaseT (TCP/IP)

Ethernet 10/100 BaseT (TCP/IP) attachment is supported on PSF/400, PSF for AIX, and Infoprint Manager for AIX printing environments. An Ethernet Adapter Card is supplied with Specify Feature number 9993 and Special Feature number 4165. The adapter card is installed in the IBM Infoprint 3000-ES1 and ED2 AFCCU processors. The IBM Infoprint 3000-ES1 and ED1/ED2 may then be attached to an Ethernet LAN.

- 10/100 BaseT LAN using Twisted Pair Cabling
 - IBM supplies a Twisted Pair wrap plug (PN 00G2380)
- Installation Instructions are provided with the features.

FDDI (TCP/IP)

FDDI (TCP/IP) attachment is supported on PSF for AIX and Infoprint Manager printing environments and for selected RS/6000 models. The Infoprint 3000-ES1 and 3000-ED1/ED2 are connected to the host FDDI through FDDI 62.5/125 multimode fiber cabling using SC connectors via the FDDI Single Station adapter, which is contained in the AFCCU. The FDDI (TCP/IP) attachment will attach to the following devices:

- Directly to RS/6000
- 8260 Multiprotocol Intelligent Switching Hub attached to an RS/6000 processor

The printer may be located at a maximum distance of 2 Kilometers from the 826 Multiprotocol Intelligent Switching Hub or RS/6000 processor.