New IBM Infoprint 6500 DBCS models succeed the IBM 6400 Printer and provide better print quality, HKSCS support, top and rear paper feed, wireless LAN feature, and ultra capacity ribbon.

Overview
IBM Infoprint® 6500 DBCS Models D3P, D3C, D6C, and D8C are feature-rich impact printers that offer:

- Emulate KS and KSSM with UHC(KSC601-1992) for South Korea, or LQ1600K (ESC/P-K) with GB18030-2000 for China or BIG5, and so forth, for Hong Kong and Taiwan.
- Print speeds up to 805 lines per minute (lpm) for demanding industrial printing applications in DBCS.
- Smaller tip and newly developed ribbon to improve double-byte character print quality.
- A newly designed high-function operator interface.
- Next generation cabinet and pedestal designs for increased appeal and user friendliness.
- An intelligent ribbon system designed to maintain optimum print quality.
- Proactive printer monitoring with the IBM Printer Management Utility (PMU).
- High-performance Windows™ Printer Drivers.
- Easier installation with the new Quick Setup Menu.
- A faster printer control unit for improved processing of bar codes, graphics, and overlays.
- A simplified product feature structure for ease of ordering.

These new models are extremely versatile, cost-effective printers. They can be attached via Ethernet, Wireless LAN, and ASCII to such diverse hosts as referenced with open systems (that is, IBM @server® xSeries® and pSeries®, and other Windows systems such as IBM PC and Netfinity® servers, IBM-compatible PCs, non-IBM systems supporting the ASCII serial or parallel interface, and LANs).

Optional features include:
- A Wireless LAN option.
- An integrated Ethernet 10/100BaseT Adapter.
- RS-422 Adapter.
- Twelve-pack of ribbon.

Key prerequisites
Connectivity support attachments and various emulation modes allow the Infoprint 6500 to be used on virtually all IBM, as well as many non-IBM, platforms.

Product number
For details, refer to the Product number section in this announcement.

Planned availability date
July 7, 2006

At a glance
IBM Infoprint 6500 printers attach to a wide spectrum of IBM systems—from IBM mainframes and parallel servers to PCs. The new Models D3P, D3C, D6C, and D8C offer:

- Emulate KS & KSSM or LQ1600K(ESC/P-K) with Hangul or Hanji fonts.
- Print speeds up to 805 lines per minute in DBCS printing.
- High-function operator interface.
- New cabinet and pedestal designs.
- Proactive printer monitoring with the PMU.
- High-performance Windows Printer Drivers.
- Faster installation with the new Quick Setup Menu.
- PowerPC® control unit for improved processing.
- Attachment via Wireless LAN, Ethernet, or ASCII.

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
The elimination of costly reprints and unacceptable
output by taking advantage of the Infoprint 6500s
Intelligent Ribbon System. This enables the printer to
stop printing and alerts the appropriate operator when
a new ribbon is needed. It then automatically detects
when a new ribbon is installed and resets
Ribbonminder accordingly.

Operational commonality
You can operate the Infoprint 6500 Models D3P, D3C,
D6C, and D8C in much the same way as the previous IBM
6400 models. These models demonstrate a commonality
in areas such as loading and unloading of forms, and the
availability of connectivity and emulations.

Optional features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless Cabinet LAN NIC Adapter (#4544) — MES</td>
<td>Wireless Pedestal LAN NIC Adapter (#4545) — MES</td>
</tr>
</tbody>
</table>

The Wireless LAN Adapter is an internal adapter to
calculate the printer to an Ethernet wireless network using
TCP/IP, NetBIOS TCP/IP, and IPX. This NIC is an internal
adapter and does not use the parallel port.

These adapters provide the capability to provide printer
status information via a Web page when the printer’s IP
address is supplied to a standard Web browser. This is
in addition to the function provided by the PMU.

Wireless operation requires the customer to obtain a
Symbol LA-4121-1100-US or Cisco AIR-LMC352 wireless
Ethernet PCMCIA radio card, or equivalent.

The wireless antenna is included with this feature.

Technical specifications:
- Maximum number of features: One of either feature
number 4542, 4544, or 4545
- Prerequisites:
  - An IBM Infoprint 6500 Model D3P for Wireless
Pedestal LAN NIC Adapter — MES (#4545)
  - An IBM Infoprint 6500 Model D3C, D6C, or D8C for
Wireless Cabinet LAN NIC Adapter — MES (#4544)
  - An Infoprint 6500 Model D3P, D3C, D6C, or D8C for
Wireless LAN NIC Adapter — Initial Order (#4542)
- Corequisites: None
- Compatibility conflicts: None
- Customer setup: Yes for feature number 4542, no for
feature numbers 4544 and 4545

RS-422 Adapter (#5600,#5601)
This feature provides an RS-422 serial port in addition to
the standard RS-232 serial port. An adapter is included
so that the RS-422 port can be either 25-pin or 9-pin.

While both the RS-232 and the RS-422 ports can be
present on the printer, they cannot be active at the same
time.

Technical specifications:
- Maximum number of features: One.
- Prerequisites: Infoprint 6500 Models D3P, D3C, D6C,
or D8C Line Matrix Printer.
- Corequisites: None.
- Compatibility conflicts: None.
Customer setup: When ordered as an MES, feature number 5601 must be installed by IBM Service. Feature number 5600 will be installed prior to shipment.

Ethernet 10/100BaseT NIC Adapter (#4177, #5180)

The Ethernet 10/100BaseT NIC Adapter is an internal adapter to connect the printer to an Ethernet network using TCP/IP, NetBIOS TCP/IP, or IPX. This NIC is an internal adapter and does not use the parallel port.

This adapter provides the capability to provide printer status information via a Web page when the printer’s IP address is supplied to a standard Web browser. This is in addition to the function provided by the PMU.

Technical specifications:

- Maximum number of features: One of either feature number 4177 or 5180
- Prerequisites: Infoprint 6500 Model D3P, D3C, D6C, or D8C
- Corequisites: None
- Customer setup: Yes for feature number 4177, no for feature number 5180

Product positioning

The Infoprint 6500 DBCS Models D3P, D3C, D6C, and D8C are the successor of IBM 6400 Printer or the double-byte enabled Infoprint 6400. Increased functions and performance have been added with:

- Smaller tip size and optimized ribbon system to provide better print quality
- Multiple emulation and character set support
- Wireless LAN

Product number

<table>
<thead>
<tr>
<th>Description</th>
<th>Machine type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Matrix Printer</td>
<td>6500</td>
<td>D3P</td>
</tr>
<tr>
<td>Line Matrix Printer</td>
<td>6500</td>
<td>D3C</td>
</tr>
<tr>
<td>Line Matrix Printer</td>
<td>6500</td>
<td>D6C</td>
</tr>
<tr>
<td>Line Matrix Printer</td>
<td>6500</td>
<td>D8C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial order (all models): Ethernet 10/100BaseT -- Init</td>
<td>D3C, D3P, D6C, D8C 4177</td>
</tr>
<tr>
<td>Wireless Ethernet 10/100BaseT -- Init</td>
<td>D3C, D3P, D6C, D8C 4542</td>
</tr>
<tr>
<td>RS-422 Adapter -- Initial</td>
<td>D3C, D3P, D6C, D8C 5600</td>
</tr>
<tr>
<td>Ribbon pack (12 pieces)</td>
<td>D3C, D3P, D6C, D8C 6652</td>
</tr>
</tbody>
</table>

MEs features (all models):

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet 10/100 Basef Adapter -- MES</td>
<td>D3C, D3P, D6C, D8C 5180</td>
</tr>
<tr>
<td>RS-422 Adapter -- MES</td>
<td>D3C, D3P, D6C, D8C 5601</td>
</tr>
<tr>
<td>Cab Wireless Einet -- MES</td>
<td>D3C, D6C, D8C 4544</td>
</tr>
<tr>
<td>Pedestal Wireless Einet -- MES</td>
<td>D3P 4545</td>
</tr>
</tbody>
</table>

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Publications

The publications below are shipped with the product. Additional copies are available immediately:

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infoprint(RM) 6500 Quick Start Guide (S. Chinese)</td>
<td>S544-5976</td>
</tr>
<tr>
<td>Infoprint 6500 Quick Start Guide (Hangul)</td>
<td>S550-0533</td>
</tr>
<tr>
<td>Infoprint 6500 Quick Start Guide (T. Chinese)</td>
<td>S550-0534</td>
</tr>
<tr>
<td>Infoprint 6500D Users Manual (English)</td>
<td>S550-0537</td>
</tr>
<tr>
<td>Infoprint 6500D Maintenance Information Manual (Eng)</td>
<td>G550-0538</td>
</tr>
<tr>
<td>Infoprint 6500 Programmers Reference for LQ1600K</td>
<td>G550-0535</td>
</tr>
<tr>
<td>Infoprint 6500 Programmers Reference for KS/KSSM</td>
<td>G055-0536</td>
</tr>
<tr>
<td>Infoprint 6500 Ethernet Interface Users Guide</td>
<td>G544-0440</td>
</tr>
</tbody>
</table>

Publications are available in the IBM Printing Systems Digital Library that can be accessed at the following Web site

http://www.ibm.com/printers

Select “Manuals.”

The IBM Publications Center Portal:

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

The Publications Center is a worldwide 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.

The following translated publications will be available at machine availability.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Simplified Chinese</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Traditional Chinese</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Hangul</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

Technical information

Specified operating environment

Dimensions and Weight

Models D3C, D6C, and D8C
- Width: 68.6 cm (27.0 inches)
- Depth: 73.7 cm (29.0 inches)
- Height: 108.0 cm (42.5 inches)
- Weight: 102 kg (225 lb) unpacked
- Weight: 130 kg (285 lb) packaged for shipping

Model D3P
- Width: 66.0 cm (26.0 inches)
- Depth: 53.3 cm (21.0 inches)
- Height: 88.9 cm (35.0 inches)
- Weight: 54.0 kg (120 lb) unpacked
- Weight: 72.0 kg (158 lb) packaged for shipping

Performance

Printer throughput in lines per minute (lpm) is a factor of the selected font. The following table shows the double-byte character printing speed in each model:

<table>
<thead>
<tr>
<th>Print mode</th>
<th>5600-D3P 1pm</th>
<th>5600-D3C 1pm</th>
<th>5600-D6C 1pm</th>
<th>5600-D8C 1pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letter quality (with high density = on)</td>
<td>90</td>
<td>161</td>
<td>195</td>
<td></td>
</tr>
<tr>
<td>Letter quality (with high density = off)</td>
<td>177</td>
<td>315</td>
<td>390</td>
<td></td>
</tr>
<tr>
<td>Near Letter Quality</td>
<td>195</td>
<td>348</td>
<td>430</td>
<td></td>
</tr>
</tbody>
</table>

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Normal 221 390 485
High speed 258 460 570
Super high speed 340 603 745
Ultra high speed 367 655 805

LAN Interfaces supported
- 10/100BaseT
- Wireless LAN

ASCII Interfaces supported
- PC Parallel (IEEE 1284)
- RS-232C Serial
- RS-422A Serial

Emulations and Character Sets Supported
Region Char. Set Emulation
China GB18030-2000 (Category A) LQ1600K (ESC/P-K)
UT8
Hong Kong BIG5, CNS, TCA, WTEN, TELETXT LQ1600K (ESC/P-K)
WANG, BIG5+&E, HKSCS2001, UTF8
IBM5550
Taiwan WANG, BIG5+/E, HKSCS2001, UTF8
IBM5550
South Unified Hangul Code, UTF8 KS, KSSM
Korea UHC (KSC5601-1992)

Operating environment

Infoprint 6500 Models:
Voltages: 100 — 240 V ac single phase grounded 50/60 Hz
Temperature:
• Operating: 10° to 40°C (50° to 104°F)
• Storage: 0° to 70°C (32° to 158°F)
Relative humidity:
• Operating: 10% to 80% noncondensing
• Storage: 5% to 90% noncondensing
Altitude:
• Operating: To 10,000 feet
• Storage: To 15,000 feet
Acoustics:
• Noise level — D3C — 50 dBa
• Noise level — D6C — 52 dBa
• Noise level — D8C — 55 dBa
• Noise level — D3P — 62 dBa

Heat output

Operating mode Units Power consumption
<table>
<thead>
<tr>
<th></th>
<th>D3x</th>
<th>D6x</th>
<th>D8x</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power saver</td>
<td>Watts &lt; 28*</td>
<td>&lt; 28*</td>
<td>&lt; 28*</td>
</tr>
<tr>
<td>Idle</td>
<td>Watts 60</td>
<td>75</td>
<td>85</td>
</tr>
<tr>
<td>Maximum**</td>
<td>Watts 315</td>
<td>460</td>
<td>540</td>
</tr>
</tbody>
</table>

- ENERGY STAR compliance requires < 28 watts in “Power Saver” mode
- Maximum power measured at 120 V ac while printing Black Plot

Hardware requirements

The Infoprint 6500 printers attach to systems, controllers, and processors through the following adapters:
- Ethernet 10/100 BaseT LAN
- Wireless LAN
- RS-422 Adapter

Software requirements

The following systems support the Infoprint 6500 Models D3P, D3C, D6C, and D8C:

<table>
<thead>
<tr>
<th>System</th>
<th>Software -- Minimum level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal computers</td>
<td>Microsoft(TM) Windows NT(TM), 2000, XP</td>
</tr>
<tr>
<td>pSeries®</td>
<td>AIX(RM) Version 3.1.5 and RS/6000® and above</td>
</tr>
</tbody>
</table>

Limitations

- Maximum forms length is 24 inches.
- Maximum forms width is 17 inches (including tear strips) or 16 inches (without tear strips). **Note:** If the rear exit of the pedestal models is used, there is a maximum forms width of 16 inches, including tear strips.
- 15-pound (56 grams/square meter or 6.8 kg) to 100-pound cardstock (163 grams per square meter or 45.36 kg) stock can be used, with a maximum thickness of 0.025 inches (0.0635 cm).
- Maximum print line is 13.6 inches.
- Friction feed paper handling is not supported.
- Checking the readability of the application is necessary when using high speed (draft mode) fonts requiring greater than 15 cpi for critical applications.
- Processing of forms with black or dark-colored backing, or forms with see-through plastic or cellophane-covered openings or windows, may give false end-of-forms (EOF) signals.
- Downloaded characters are not supported in Proprinter, Epson, pSeries, pSeries XQ Variant, or Printronix Serial Matrix emulations.
- Due to the variation in carbonless forms' type and age, readability of more than four-part forms should be assured before using critical applications.
- Compatibility differences may exist when replacing or coexisting with older printers due to technology differences, product and application customization, and emulation differences.
Planning information

Customer responsibilities

The Infoprint 6500 is designated as customer setup (CSU). The customer is responsible for:

- Adequate site, system, and other vendor preparation.
- Receipt at the customer’s receiving dock and placement of the printer.
- Installation and configuration of the printer by following the instructions in the Quick Start Guide
- Ordering, installing, and maintaining cables.

Cable orders section. No cables except a power cord are shipped with the printer.
- Ordering and replacing the ribbons.

Supplies section.
- Changing and replacing forms, including clearing jams and cleaning as appropriate.
- Using and following the problem determination procedures and filling out the trouble report prior to calling for IBM service.

Cable orders

Power cords: A 6 ft (1.8 m) power line cord is provided with the printer.

Cable orders — ASCII Serial/Parallel

This product is connected to personal computers and controllers via industry standard EIA-232-C and PC-parallel printer cables.

The customer is responsible for ordering, installation, and maintenance of these cables and their various parts. The attachment cables may be purchased from IBM or from a customer-selected source.

If the cables are ordered through your IBM representative, specify part number, assembly number, or bulk number as appropriate, and allow a lead time of 90 days.

Installability: The Infoprint 6500 is a CSU machine.


The capacity of this ribbon is approximately 30% greater than the largest capacity of IBM 6400 ribbon.

The new ribbon can only be used on the new Infoprint 6500 Models D3P, D3C, D6C, and D8C.

Infoprint 6500 Ultra Capacity Printer Ribbon:

- Part number: 41U1793 (For after market supply)
- Number of ribbons per box: Twelve
- Number of boxes per part number: One

Choosing the right supplies is very important. For optimum print quality and reliable performance, the use of IBM supplies is recommended. Supplies are purchase-only items. The customer is responsible for ordering and maintaining an adequate stock of supplies. Many Authorized Supplies Resellers offer supply agreements; these agreements often offer price discounts, price protection, established shipping schedules, and reduced administrative expenses.

It is recommended that customers maintain a one- to two-month stock of supplies.

Security, auditability, and control

This product uses the security and auditability features of the host hardware, software, and/or application software.

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

Warranty period: One year in all countries

Warranty service: IBM On-site Repair (IOR), 9x5, next business day in all countries

Tier 1 Customer Replaceable Unit (CRU) parts:

The following are Infoprint 6500D CRUs:

- Cable, I/O — Tier 2
- Cable, Twinax (Smart T) — Tier 2
- Fence, Rear Paper Tray — Tier 2
- Overlay, Operator Panel — Tier 1
- Paper supports — Tier 1
- Power Cord — Tier 2
- Quick Access Cover Insert(Ped) — Tier 1
- Optional Input Paper Shelf(Ped) — Tier 1
- Pedestal Rear Paper Tray Fence — Tier 1
- Stacker Chain Kit — Tier 2
- Stacker Output Basket — Tier 1
- Stacker Paper Tent — Tier 1
- Top Cover Foam Strip — Tier 2
- Top Cover Magnet — Tier 2
- Front Door — Tier 2
- Wire Rope, Front Door — Tier 2
- Front Door Foam Strip — Tier 2
- Front Door Magnet — Tier 2

During the base warranty (9 X 5, next business day), installation of Tier 1 CRUs is the customer’s responsibility. If IBM installs a Tier 1 CRU at the customer’s request, the customer will be charged for the installation. Installation instructions are in the User’s Guide.

During maintenance, customer installation of Tier 1 and Tier 2 CRUs are optional. When calling for service, the customer can elect to install these parts or to have IBM install them.

Warranty service: IOR, 9x5, Monday through Friday excluding holidays, next-business-day response
Post-warranty service

The following post-warranty service types can be offered:

- IOR, 9x5, Monday through Friday excluding holidays, next-business-day response
- IOR, 24x7, Same day response

**Maintenance billing period:** Monthly

**Warranty service upgrades and maintenance service options:** No warranty upgrade is provided.

**Usage plan machine:** No

**IBM hourly service rate classification:** Two

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.

**Field-installable features:** Yes

**Model conversions:** No

**Machine installation:** Customer setup: customers are responsible for installation according to the instructions IBM provides with the machine.

**Graduated Program License Charges Apply:** No

**Licensed internal code:** The Infoprint 6500 contains Licensed Internal Code (LIC).

IBM LIC is licensed for use by a customer on a specific machine, designated by serial number, under the terms and conditions of the IBM Agreement for Licensed Internal Code, to enable a Specific Machine to function in accordance with its Specifications, and only for the capacity authorized by IBM and for which the customer has acquired. You can obtain the agreement at

http://www-1.ibm.com/servers/support/machine_warranties/licensed_internal_code.html

or by contacting your IBM representative.

**Educational allowance:** A 15% educational allowance is available to qualifying institutions in accordance with the Attachment for Educational Allowance. The educational allowance may not be added to any other discount or allowance.

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**Prices**

For all local charges contact your IBM representative.

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