

## IBM 4610 SureMark POS Printer Model TI5 at a Glance

<b>Speed</b>	<ul style="list-style-type: none"><li>Thermal receipt station:<ul style="list-style-type: none"><li>6.5 inches per second</li><li>50 lines per second at 7.7 lines per inch (DBCS)</li><li>52 lines per second at 8 lines per inch (SBCS)</li><li>39 lines per second at 6 lines per inch (SBCS)</li></ul></li><li>Impact slip station:<ul style="list-style-type: none"><li>2.2 lines per second (DBCS, including Traditional and Simplified Chinese, Katakana and Kanji, and Hanguel)</li><li>4.3 lines per second (SBCS)</li></ul></li></ul>
<b>Interfaces</b>	<ul style="list-style-type: none"><li>Modular, replaceable adapter supports RS-485 and RS-232</li><li>RS-485<ul style="list-style-type: none"><li>For attachment to IBM 4694 POS terminals</li><li>Separate power supply not required</li><li>Both SBCS and DBCS 4694 models are supported</li></ul></li><li>RS-232<ul style="list-style-type: none"><li>For attachment to the IBM 4614 SureOne POS terminal, IBM 4695 POS terminals, personal computers or non-IBM POS devices</li><li>DTR/DSR or XON/XOFF communications mode</li><li>9-pin D-shell connector at 9.6 KBaud or 19.2 KBaud</li><li>Power supply required (see optional features)</li></ul></li></ul>
<b>Printing characteristics</b>	<ul style="list-style-type: none"><li>Thermal print resolution: 8 dots per mm (203 dots per in.)</li><li>DBCS Characters<ul style="list-style-type: none"><li>Thermal: 24 x 24 dot characters at 19 characters per line (all languages)</li><li>Impact (Hanguel): 9 x 16 dot characters at 21 characters per line</li><li>Impact (Traditional and Simplified Chinese, Katakana and Kanji): 16 x 16 dot characters at 12 characters per line</li></ul></li><li>Font A (SBCS)<ul style="list-style-type: none"><li>10 x 20 dot characters at 15 or 17 characters per inch</li><li>Receipt: 44 or 48 characters per line on 80 mm (3.15 in.) paper</li><li>Slip: 47 or 52 characters per line on inserted documents</li></ul></li><li>Font B (SBCS)<ul style="list-style-type: none"><li>12 x 24 dot characters at 12 characters per inch</li><li>Receipt: 34 characters per line on 80 mm (3.15 in.) paper</li><li>Slip: 37 characters per line on inserted documents</li></ul></li><li>Additional choices<ul style="list-style-type: none"><li>Double-wide or double-high characters</li><li>Double-wide and double-high characters</li><li>Underscore (receipt only)</li><li>Reverse image (receipt only)</li><li>90° rotation of characters (receipt only)</li><li>Portrait or landscape (slip only)</li></ul></li></ul>
<b>Resident character sets</b>	<ul style="list-style-type: none"><li>Code pages:<ul style="list-style-type: none"><li>DBCS mode: 932 (Japanese), 950 (Traditional Chinese), 1381 (Simplified Chinese), 949 (Hanguel). All character sets can be downloaded using a utility available from the IBM Retail Store Solutions Web site at <a href="http://www.ibm.com/solutions/retail">http://www.ibm.com/solutions/retail</a>. Not all four code pages may be resident simultaneously.</li><li>SBCS mode: 437 (U.S.), 858 (International), 860 (Portuguese), 863 (Canadian French), 865 (Norwegian)</li></ul></li><li>User-specified: 4 additional thermal and 2 additional matrix code pages</li></ul>
<b>Resident barcode formats</b>	<ul style="list-style-type: none"><li>UPC A/E, EAN 8, EAN 13, JAN 8, JAN 13, Code 39, ITF, Code 93, Code 128, Codabar, PDF 417</li></ul>
<b>Flash memory usage</b>	<ul style="list-style-type: none"><li>16 KB data buffer</li><li>Microcode (can be updated by user)</li><li>448 KB accessible to user for storage of:<ul style="list-style-type: none"><li>Fixed messages</li><li>Logos and graphics</li><li>Additional code pages</li><li>Electronic journal or other user data storage</li></ul></li><li>16 MB for storage of DBCS characters</li></ul>
<b>Additional standard features</b>	<ul style="list-style-type: none"><li>Cutter</li><li>Receipt out-of-paper sensor</li><li>Top and bottom of document sensors</li><li>Cash drawer port (supports two cash drawers)</li><li>Cash drawer uses a standard RJ11 connector</li></ul>
<b>Optional features</b>	<ul style="list-style-type: none"><li>RS-485 and RS-232 cables for attachment to IBM POS devices and other POS or PC platforms</li><li>Universal power supply for use with RS-232 attachment</li></ul>
<b>Dimensions</b>	<ul style="list-style-type: none"><li>190.5 mm W (200.5 mm W with overhanging ledge) x 272 mm D x 144 mm H front, 190 mm H back</li><li>7.5 in. W (7.89 in. W with overhanging ledge) x 10.7 in. D x 5.5 in. H front, 7.5 in. H back</li><li>Weight: 4.4 kg (9.6 lbs.)</li></ul>
<b>Supply specifications</b>	<ul style="list-style-type: none"><li>Thermal paper<ul style="list-style-type: none"><li>POS grade (may be recycled with other paper products)</li><li>Width: 80 mm (3.15 in.)</li><li>Diameter of roll: 80 mm (3.15 in.)</li></ul></li><li>Ribbon: Epson ERC35 or equivalent (black or purple)</li><li>Forms<ul style="list-style-type: none"><li>Single and multipart forms</li><li>Original and two or more clear copies depending on form thickness.</li><li>Maximum thickness: 0.47 mm (.0185 in.); minimum thickness: 0.1 mm (.004 in.)</li><li>Minimum width 66 mm (2.6 in.); minimum length 80 mm (3.15 in.)</li></ul></li></ul>
<b>Operating systems</b>	<ul style="list-style-type: none"><li>In DBCS and SBCS mode, drivers are available for RS-485 attachment using:<ul style="list-style-type: none"><li>IBM PC DOS 2000 with Point-of-Sale Subsystem for DOS V 1.6.0 + delta package 160(c)</li><li>OPOS V 1.4 with Point-of-Sale Subsystem for Windows V 1.4.3</li><li>Microsoft Windows NT® 4.0 or Windows 98 with Point-of-Sale Subsystem for Windows V 1.4.3</li></ul></li><li>4690 OS V1 and V2 DBCS support for 4610 Model TI5 will be offered via services agreements</li><li>In SBCS mode, drivers are available for RS-485 attachment using:<ul style="list-style-type: none"><li>4690 OS V1 at maintenance level 9910 (requires DOS/Windows terminal for firmware updates and maintenance utilities at this time)</li><li>4690 OS V2 R1 at maintenance release CD 99A0 (requires DOS/Windows terminal for firmware updates and maintenance utilities at this time)</li></ul></li><li>No driver is required for RS-232 attachment</li></ul>
<b>Limited Warranty<sup>1</sup></b>	<ul style="list-style-type: none"><li>1 year</li></ul>
<b>ISO certification</b>	<ul style="list-style-type: none"><li>IBM's Retail and Distribution Solutions development and manufacturing organizations are ISO 9001 and 14001 certified.</li></ul>



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1 For a copy of the terms and conditions of IBM's Statement of Limited Warranty, please contact your IBM representative or authorized reseller.

2 When operating in SBCS mode, Model TI5 has identical specifications to Model TI3.



G580-0114-00



Even faster point-of-sale printing for demanding retail environments



## IBM 4610 SureMark™ Point-of-Sale Printer Model TI5

# SureMark



### Highlights

#### Powerful Performance

The IBM 4610 SureMark Point-of-Sale (POS) Printer Model TI5 with Double Byte Character Set Support can make an immediate impact on productivity for retailers in China, Hong Kong, Japan, Korea and Taiwan. With 50 lines per second (lps) output in DBCS mode, the SureMark Printer delivers high-quality thermal receipt printing faster than ever before. Impact slip printing handles multipart forms with ease. High-resolution fonts and characters make receipts easier to read for sales associates and shoppers alike.

#### Engineered for Retail

SureMark Printer Model TI5 supports DBCS and SBCS printing, and can switch between the two electronically. So, global retailers can use the 4610 platform worldwide.

We also designed this printer for excellent reliability. Its durable hardware and printing mechanisms are engineered to deliver steady, problem-free operation, even in the most demanding retail environments. The SureMark Printer offers one of the smallest footprints in its class, so it fits wherever you need it most. The simple drop-and-load mechanism makes paper handling quick, easy and virtually error-proof.

#### Investment Protection

The SureMark Printer supports RS485/RS232 connections and accepts modular interface adapters. This gives retailers the flexibility to upgrade to future I/O connectivity, such as Universal Serial Bus (USB), as it becomes available. The ability to migrate smoothly to new interface standards helps protect retailers' hardware investment.

#### Retail-hardened design

Virtually every aspect of the SureMark Printer is designed to resist the dust, dirt and spills common to many POS environments. This helps provide constant, problem-free results under harsh conditions.

#### Easy to use for operators

Drop-and-load paper handling makes refills quick and easy. Changing ribbons is simple, too. Just lift off the old cartridge, snap the new one on and turn the knob to move the ribbon into place. We fit all these helpful features in a trim package with one of the most compact footprints in its class.

#### Flexible options to protect your investment

The SureMark Printer works with a variety of POS hardware configurations, including many non-IBM systems. SureMark Printers support RS485/RS232 in a single, modular adapter. The ability to accept modular interface adapters gives retailers several options for future system integration. Should your hardware configuration change, the SureMark Printer is easy to upgrade. Select the interface that best supports your hardware investment today, then migrate smoothly to new technologies such as USB as they become available.

#### Multiuse printer memory

The SureMark Printer offers generous flash memory for fail-safe storage of electronic journaling data. Flash memory also keeps barcodes, trailers, graphics, logos and user-defined character tables stored in the printer. With this information resident, the SureMark minimizes receipt printing time because less data must be transferred from the POS terminal to the printer.

#### For more information

If you would like to learn more about IBM POS systems, contact your local IBM representative or visit us on the Internet at <http://www.ibm.com/solutions/retail>.

## Superior speed for POS printing.

#### High-powered POS performance

This quiet, high-quality thermal receipt printer sets a new standard for speed with 50 lines per second (lps) output and full Double Byte Character Set (DBCS) support for retailers in China, Hong Kong, Japan, Korea and Taiwan. For printing on standard paper or multipart forms, Model TI5 also includes an impact slip printing station.

The SureMark Printer's print speed gives retailers the ability to print store logos, coupons and marketing messages on the receipt without compromising transaction time. Fast thermal printing also allows you to use applications that print receipts after the completion of the transaction. These applications can eliminate voids and group multiple items together, producing a clean receipt that is easier for customers to scan for accuracy, and is more appealing to the eye.

IBM also improved legibility with completely redesigned fonts for the Double Byte Character Set and the Single Byte Character Set (SBCS). New character shapes are crisper and clearer, which means marketing messages printed with either set are easier to read and more memorable.

Retailers can switch between DBCS mode and SBCS mode electronically. No mechanical adjustments are required. In fact, when operating in SBCS mode, Model TI5 operates like a Model TI3. That means global retailers can use similar models of the 4610 worldwide, which can help improve the efficiency of service and support.

