

*Delivering fast, high-quality thermal receipt printing,  
plus impact printing for forms and documents*



## IBM SureMark Printers: Dual-station models



Model T18

high-quality thermal printers deliver up to 52 lines per second (lps) for single-byte character set (SBCS) output, or 50 lps for double-byte character set (DBCS) fonts. All models include a thermal receipt print station and an impact print station for printing multipart forms and checks.

### **Providing fast, high-quality printing with thermal technology**

SureMark Printers use the latest innovations in thermal printing to quietly produce crisp, clean output on every receipt. TrueType fonts enable newspaper-style printing with proportional, scalable characters that attract customers' attention and improve the readability of targeted marketing messages. You can also use thermal printing to highlight special offers, savings totals, loyalty points and other details in a high-impact accent color (red or blue).

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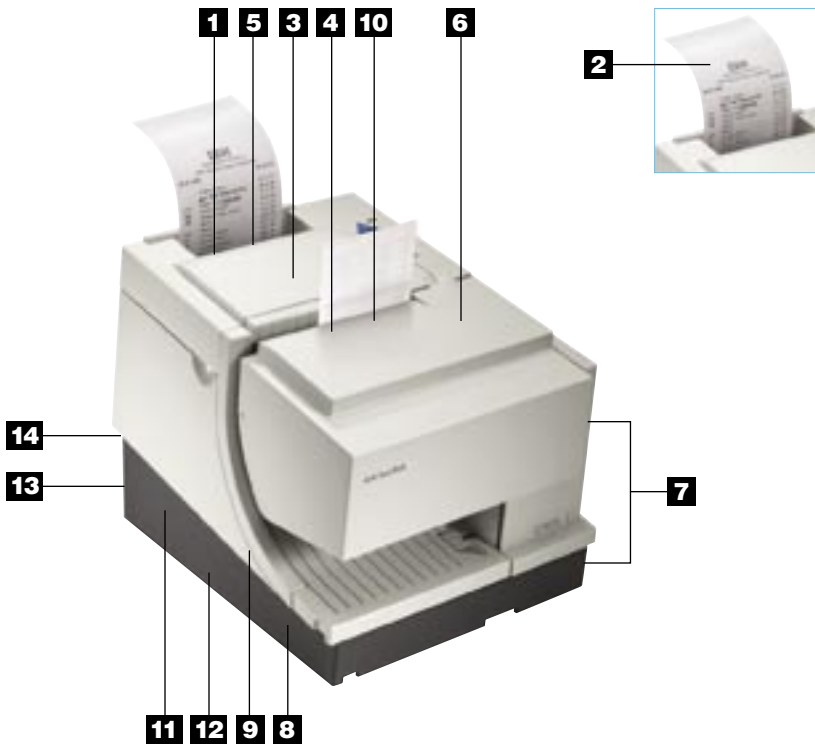
#### Highlights

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- ***Leverages thermal printing, quickly delivering quality receipts***
- ***Supports ECC savings via accurate MICR reading and check imaging***
- ***Stores logos and barcodes to enhance receipt customization***
- ***Provides highly serviceable, global-ready platform***
- ***Offers various emulations to ease migration challenges***

### **Transforming the checkout process with technologically advanced printers**

With a high-powered combination of advanced technology and reliability, dual-station models of IBM SureMark™ Printers can help retailers in every segment reduce transaction times, customize receipts with marketing messages and maximize uptime at the point of sale (POS). These quiet,



Model T18

**Thermal receipt print station**

- 1** Provides fast, quiet output for SBCS or DBCS applications
- 2** Creates opportunities for targeted marketing by supporting barcodes, logos, color graphics and TrueType fonts

- 3** Helps reduce downtime at the POS through simple paper loading
- 4** Includes a receipt out-of-paper sensor, enabling cashiers to proactively address paper outages
- 5** Includes cutter

**Impact station**

- 6** Improves accuracy and enables implementation of ECC check imaging with the help of OCR technology and advanced MICR reading (model T18/D18/TG8/DG8 only)
- 7** Supports a consistent look and feel at the POS by allowing you to color match the top and bottom covers to IBM hardware
- 8** Prints on single or multipart forms in portrait or landscape orientation
- 9** Enables fast check processing with high reliability through single-printhead design
- 10** Provides top and bottom document sensors


**Physical design**

- 11** Provides additional memory for electronic journaling or extended logo storage with 2MB or 8MB upgrade (optional on some models)
- 12** Eliminates the time and expense of printing, storing and managing paper journals with the help of electronic journaling support
- 13** Supports powered Universal Serial Bus (USB) and RS-485 attachments, which eliminates the need for a separate power brick while optimizing counter space
- 14** Works with many IBM and third-party systems through standard USB and RS-232 attachments (external power brick required)

## IBM SureMark Printers: dual-station models at a glance

Models	T18/D18/TG8/DG8	T13/DI3/TG3/DG3	T14/DI4/TG4/DG4	T15/TG5
<i>Hardware</i>				
<i>Printing speed<sup>1</sup></i>				
Receipt station (one-color paper)	Up to 52 lps @ 8 lpi, 39 lps @ 6 lpi			Up to 50 lps @ 7.7 lpi
Receipt station (two-color paper)	Up to 35 lps @ 8 lpi, 26 lps @ 6 lpi			Up to 30 lps
Impact slip station	Up to 4.3 lps			Up to 4.3 lps
Printing resolution (thermal)	203 dpi			
<i>Memory usage</i>				
Data buffer RAM	16KB	16KB		16KB
Flash memory for microcode	2MB	512KB		512KB
Flash memory for offline journal	Up to 2MB	104KB		360KB
Flash memory for logos	Up to 2MB	64KB		64KB
Flash memory for fixed messages	Up to 2MB	8KB		8KB
Flash memory for code pages	80KB	80KB		1.536MB
Flash memory for scanned images	Up to 2MB			2MB
Standard flash memory	4MB	2–8MB		8MB
Optional flash memory	8MB			
Interfaces	Powered USB, standard USB (external power brick required) RS-485, standard RS-232 (external power brick required)			
Mounting options	Integrated with POS Distributed cash drawer			
Ports	Cash drawer (one physical, two logical, +24V), RS-232 adapter only			
<i>Physical dimensions and weight</i>				
In mm (WxDxH)	190.5 <sup>2</sup> x255x153.4 <sup>3</sup>	190.5 <sup>2</sup> x255x144 <sup>4</sup>		
In inches (WxDxH)	7.5x10x6.0	7.5x10x5.5		
Weight	4.9 kg/10.8 lbs	4.4 kg/9.6 lbs	4.8 kg/10.5 lbs	4.4 kg/9.6 lbs
<i>Industry standards</i>				
Resident barcode formats	UPC A/E; JAN 8 (EAN); Code 39, ITF; Code 93; Code 128 a, b and c; Codabar; PDF417			
<i>Peripheral options</i>				
Integration kits	<ul style="list-style-type: none"> <li>IBM SurePOS™ 700 Series</li> <li>IBM SurePOS 4694 System</li> </ul>	<ul style="list-style-type: none"> <li>IBM SurePOS 500 Series (TG3, DG3, TG4, DG4, TG5)</li> <li>IBM SurePOS 600 Series (TG3, DG3, TG4, DG4, TG5)</li> <li>IBM SurePOS 700 Series (T13, DI3, T14, DI4, T15)</li> <li>IBM SurePOS 4694 System (T13, DI3, T14, DI4, T15)</li> </ul>		
<i>Supply options</i>				
IBM now offers branded paper supplies. For more information, contact your IBM sales representative or visit: <a href="http://www.printers.ibm.com/internet/wwsites.nsf/vwwwebpublished/paper_pos_ww">www.printers.ibm.com/internet/wwsites.nsf/vwwwebpublished/paper_pos_ww</a>				

## IBM SureMark Printers: dual-station models at a glance (continued)

Models	T18/D18/TG8/DG8	T13/D13/TG3/DG3	T14/D14/TG4/DG4	T15/TG5
<b>Software<sup>5</sup></b>				
Operating system support <sup>6</sup>	<ul style="list-style-type: none"> <li>IBM 4690 operating system</li> <li>Microsoft® Windows® 2000 (PE)</li> <li>Microsoft Windows 98 (2nd Edition)</li> <li>Microsoft Windows XP (PE)</li> </ul>	<ul style="list-style-type: none"> <li>IBM 4690 operating system</li> <li>Microsoft Windows 2000 (Professional Edition)</li> <li>Microsoft Windows 98 (2nd Edition)</li> <li>Microsoft Windows XP (Professional Edition)</li> <li>Linux®</li> <li>DOS</li> </ul>		
Drivers supported <sup>6</sup>	 <ul style="list-style-type: none"> <li>OLE for POS (OPOS)</li> </ul>	<ul style="list-style-type: none"> <li>OLE for POS (OPOS)</li> <li>Java™ POS</li> <li>POSS for Microsoft Windows</li> <li>POSS for Linux</li> <li>DOS</li> <li>Native Windows driver for Microsoft Windows</li> </ul>	<ul style="list-style-type: none"> <li>OLE for POS (OPOS)</li> <li>JavaPOS</li> <li>POSS for Microsoft Windows</li> <li>POSS for Linux</li> <li>DOS</li> </ul>	
IBM application support	<ul style="list-style-type: none"> <li>IBM Supermarket Application</li> <li>IBM SurePOS™ ACE</li> <li>IBM Chain Drug Sales Application</li> <li>IBM General Sales Application</li> </ul>			
<b>Availability</b>				
North America	Yes <sup>7</sup>	Yes	Yes	No
Latin America	T18/TG8 only	T13/TG3 only	T14/TG4 only	No
Europe, Middle East, Africa	No	T13/TG3 only	T14/TG4 only	No
Asia Pacific	No	T13/TG3 only	T14/TG4 only	Yes

<sup>1</sup> Indicates maximum rated speed. Actual print speed depends on user-specific configuration of interface, application, operating system and drivers.

<sup>2</sup> With overhanging ledge, width is 200.5 mm (7.9 inches).

<sup>3</sup> Rear height is 200.5 mm (7.9 inches).

<sup>4</sup> Rear height is 190.5 mm (7.5 inches).

<sup>5</sup> Some printer functions may not be supported by all combinations of operating systems and drivers.

<sup>6</sup> To obtain the latest compatibility data for operating systems, interfaces and IBM hardware, visit the IBM support Web site: [ibm.com/industries/retail/store/support](http://ibm.com/industries/retail/store/support).

<sup>7</sup> Available in the U.S. and Canada only.

## SureMark Printers: dual-station models overview

Model	Character set	Special features	Cover	Warranty service <sup>8</sup>
TI3	SBCS	Two-color printing	Pearl White <sup>9</sup>	IBM onsite repair <sup>12</sup>
TI4	SBCS	Two-color printing/Conventional MICR/Single-pass check handling <sup>10</sup>	Pearl White <sup>9</sup>	IBM onsite repair <sup>12</sup>
TI5	DBCS	Two-color printing	Pearl White <sup>9</sup>	IBM onsite repair <sup>12</sup>
TI8	SBCS	Two-color printing/Enhanced MICR with OCR/Single-pass check handling/Document imaging	Pearl White <sup>9</sup>	IBM onsite repair <sup>12</sup>
TG3	SBCS	Two-color printing	Iron Gray <sup>11</sup>	IBM onsite repair <sup>12</sup>
TG4	SBCS	Two-color printing/Conventional MICR/Single-pass check handling	Iron Gray <sup>11</sup>	IBM onsite repair <sup>12</sup>
TG5	DBCS	Two-color printing	Iron Gray <sup>11</sup>	IBM onsite repair <sup>12</sup>
TG8	SBCS	Two-color printing/Enhanced MICR with OCR/Single-pass check handling/Document imaging	Iron Gray <sup>11</sup>	IBM onsite repair <sup>12</sup>
DI3	SBCS	Two-color printing	Pearl White <sup>9</sup>	Depot service <sup>12</sup>
DI4	SBCS	Two-color printing/Conventional MICR/Single-pass check handling	Pearl White <sup>9</sup>	Depot service <sup>12</sup>
DI8	SBCS	Two-color printing/Enhanced MICR with OCR/Single-pass check handling/Document imaging	Pearl White <sup>9</sup>	Depot service <sup>12</sup>
DG3	SBCS	Two-color printing	Iron Gray <sup>11</sup>	Depot service <sup>12</sup>
DG4	SBCS	Two-color printing/Conventional MICR/Single-pass check handling	Iron Gray <sup>11</sup>	Depot service <sup>12</sup>
DG8	SBCS	Two-color printing/Enhanced MICR with OCR/Single-pass check handling/Document imaging	Iron Gray <sup>11</sup>	Depot service <sup>12</sup>

<sup>8</sup> All limited warranty terms are for one year. For a copy of the terms and conditions of IBM's statement of limited warranty, contact your IBM representative or reseller.

<sup>9</sup> Bottom cover will be Litho Gray with RS-485/RS-232 adapter (matches IBM SurePOS 4694 system). With USB adapter, bottom cover will be Storm Gray (matches the Storm Gray models of the IBM SurePOS 700 Series).

<sup>10</sup> If you have purchased Model TI4 printers, IBM can add TI8/DI8 functionality through a depot-installed upgrade kit.

<sup>11</sup> Matches the IBM SurePOS 300 Series, the IBM SurePOS 500 Series and the IBM SurePOS 600 Series.

<sup>12</sup> Systems with limited onsite service are designed to be repaired during the applicable warranty period primarily with IBM supplied replacement parts, installed by trained IBM service technicians at the customer's location. IBM will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement is/are unable to resolve the problem, or (b) the part is one of the few designated by IBM for customer replacement. For a list of customer replaceable parts, contact IBM. Support unrelated to a warranty issue may be subject to additional charges.

### Enabling versatile, cost-effective check handling with ECC support

Models TI8 and DI8 feature optical character recognition (OCR) technology and a built-in scanner for more accurate magnetic ink character recognition (MICR) reading and electronic check imaging. With these capabilities, retailers can take advantage of cost-effective electronic check conversion (ECC) while helping to minimize the risk of administrative

returns and losses from insufficient fund (NSF) checks. Many models also offer single-pass check handling, conventional MICR reading, check endorsing and check flipping—all of which can help accelerate check processing and help you serve more customers in less time.

### Enhancing receipt information by leveraging flash memory in the printer

IBM SureMark Printers store logos and barcodes in flash memory, so

they can be generated automatically. This minimizes total transaction time, allowing retailers to print logos, barcodes, graphics and text messages on receipts without affecting customer wait time. Your POS printer becomes a powerful marketing tool. Add your logo to receipts and build your store's brand. Use barcodes to expedite returns. Or print coupons and special offers to reward loyal customers.

SureMark Printers can also provide “clean receipt” capabilities. Therefore, you can provide customers with receipts that are organized by item and category, for example, making it easier for your customers to scan the receipt for specific items if they have questions. And because it leverages fast thermal printing to support this capability, it doesn’t add any additional time to a transaction.

### **Providing a global-ready, serviceable, snap-together design**

Paper handling is fast and easy, so operators can change paper rolls quickly without delaying customers. What’s more, the simple, snap-together design that is used in all models is extremely easy to service. And by supporting electronic journaling, SureMark Printers also help eliminate the costs and challenges of maintaining a second print station. Searchable electronic records make it easier to find journal entries and employees require less printer training.

With dual-station models for SBCS or DBCS output, SureMark Printers also allow international, multinational and global retailers to use a single printer platform for every store worldwide. This can help improve service and support efficiency.

### **Easing migration with the help of emulation**

SureMark Printers offer emulation of the receipt and document insert stations for IBM Model 3 and Model 4 printers.\* This allows retailers to replace existing printers with SureMark Printers to upgrade print speed, print quality and overall ease of use—without the time and cost of reconfiguring existing POS software. Additionally, if you plan to use model T18/D18/TG8/DG8 to support ECC, but must wait to install new hardware or software to support this new capability, model T18/D18/TG8/DG8 can emulate model T14 features to act as an interim solution.

### **For more information**

To learn more about IBM SureMark Printers and other retail store solutions from IBM, contact your local IBM representative or visit:

**[ibm.com/industries/retail/store](http://ibm.com/industries/retail/store)**

To place an order, call 1 800 IBM-CALL (1 800 426-2255) or 1 770 863-1000 in countries other than the U.S. and Canada.



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The IBM Web site can be found at [ibm.com](http://ibm.com).

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\* Not all printer functions are emulated. For a full list of printer emulation functions, please visit the IBM support Web site: [ibm.com/industries/retail/store/support](http://ibm.com/industries/retail/store/support).