Peripherals

IBM SureMark Printers – Dual-station models

Sales reference guide

Summary

Dual-station models in the IBM SureMark™ Printer family combine advanced technology with high reliability to help retailers in every segment streamline checkout processes and reduce costs while enhancing the customer's point-of-sale (POS) experience. When used with IBM 4690 OS Version 3, Release 3, SureMark Printer models TI8 and DI8 enable retailers to leverage Optical Character Recognition (OCR) technology to provide electronic imaging and support cost-effective Electronic Check Conversion (ECC) processes. These quiet, high-quality thermal receipt 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 used to print Asian languages, which helps reduce transaction times. They can also print customized marketing messages on easy-to-read receipts to strengthen their brand image communication with customers. All models include a thermal receipt printing station and an impact station for printing multipart forms and checks. They are ideal for stores that typically accept personal checks and/or frequently process forms for gift certificates and lay-away programs.

Key messages

1. IBM SureMark Printers deliver fast, high-quality receipt printing

They use the latest advances in thermal printing to ensure quiet, high-quality receipt output. TrueType fonts enable newspaper style printing with proportional, scalable characters that attract attention and improve the readability of targeted marketing messages. Retailers can also use thermal paper to highlight special offers, savings totals, loyalty points and other details in a high-impact accent color (red or blue).

2. IBM SureMark Printers enable cost-effective check handling

IBM SureMark Printer models TI8 and DI8, when used with IBM 4690 OS V3 R3, can help retailers optimize the benefits of ECC. They feature OCR technology and a built-in scanner for more accurate Magnetic Ink Character Recognition (MICR) reading and electronic check imaging. These capabilities help minimize the risk of administrative returns and losses from non-sufficient funds (NSF) checks when ECC is used. Many dual-station models also offer single-pass check handling, conventional MICR reading, check endorsing and check flipping – all of which accelerate check processing and help our clients serve more customers in less time.

3. IBM SureMark Printers can customize receipts

By storing logos, barcodes and graphics in flash memory for rapid retrieval, SureMark Printers allow retailers to print complex images on receipts without increasing customer wait-time. This creates powerful marketing opportunities at the POS. Retailers can add their logos to receipts to build their brand image, use barcodes to expedite returns, or provide personalized offers to loyal customers.

4. IBM SureMark Printers are easy to use

Paper handling is fast and easy, so operators can change paper rolls quickly without making customers wait. These printers also feature a simple, snap-together design, which simplifies maintenance.

5. IBM SureMark Printers offer strong investment protection

Dual-station models can handle SBCS or DBCS output, allowing international, multinational and global retailers to use a single printer platform for every store worldwide. This improves service and support efficiency. They can also emulate[1] the receipt and document insert stations for IBM Model 3 and Model 4 printers, enabling retailers to replace existing printers with IBM SureMark Printers to upgrade print speed, print quality and overall ease of use – without the time and cost of reconfiguring existing POS software.

Solution features and benefits

SureMark Printer, dual-station models

Features	Benefits
Fast, high-quality thermal receipt printing	Helps retailers complete transactions more quickly, and enables printing of logos, coupons and marketing messages directly on customer receipts in black with one accent color
Impact printing	Provides fast, high-quality results for single and multipart forms
OCR technology, enhanced MICR reading and electronic check imaging (models TI8/TG8/DI8/DG8)	Enables retailers to implement cost-effective ECC – which eliminates the costs and time associated with handling clearing and sending checks – while minimizing the risk of administrative returns and losses from NSF checks
Versatile check handling, including single-pass check handling, conventional MICR reading, check endorsing and check flipping	Accelerates check processing and decrease customer wait-time
Flash memory logo storage and automatic barcode generation	Minimizes print time, speeds checkout and enables coupon printing. Barcode on receipt also allows retailers to access transaction data by scanning receipt, which expedites returns
Standard 2MB or optional 8MB (available for some models)	Provides additional memory for storing transaction information during offline operation
TrueType fonts	Improves readability of receipts, and helps enhance retailer's brand image
Printing on special thermal paper provides one accent color (red or blue)	Enables retailers to highlight promotional messages, total customer savings, accumulated loyalty points and other important information
Range of models covering the needs of international, multinational and global retailers	Improves efficiency of service, support and upgrades by enabling retailers to use one printer platform and similar interfaces across all stores worldwide
Small footprint	Maximizes available counter space at the POS
Simple paper handling	Eliminates the risk of POS downtime when paper runs out by enabling quick, easy paper roll installation
Electronic journaling support	Eliminates the time and expense of printing, storing and managing paper journal rolls
USB, RS-232 and RS-485 connectivity with modular adapter	Links with many IBM and non-IBM systems, and gives retailers the option to choose one interface today, and easily upgrade to another in the f

Positioning

Portfolio comparison

Dual-station models of the IBM SureMark Printer feature a thermal printing station used exclusively to print receipts (similar to single-station models). They are also equipped with an impact printing station used for printing on forms, such service, support and upgrade as checks, gift certificates, lay-a-way documents and other transaction-oriented paperwork. Unlike the three-station models, the dual-station models do not include a second thermal station for journaling.

Target market

1. *Tier-one, -two, -three and -four supermarkets, specialty retailers, department stores and mass merchandisers.* Dual-station models of the IBM SureMark Printer are the right choice for retailers that frequently accept personal checks as valid tender, and use forms for processing gift certificates and other transactions.

Models overview

	Character set	Special features	Color cover	Warranty service[2]
TI3	SBCS	Two-color printing	Pearl white[3]	IBM onsite repair
TI4	SBCS	• Two-color printing • Conventional MICR • Single-pass check handling[4]	Pearl white[3]	IBM onsite repair
TI5	DBCS	Two-color printing	Pearl white[3]	IBM onsite repair
TI8	SBCS	• Two-color printing • Enhanced MICR with OCR • Single-pass check handling • Document imaging	Pearl white[3]	IBM onsite repair
TG3	SBCS	Two-color printing	Iron gray[5]	IBM onsite repair
TG4	SBCS	• Two-color printing • Conventional MICR • Single-pass check handling	Iron gray[5]	IBM onsite repair
TG5	DBCS	Two-color printing	Iron gray[5]	IBM onsite repair
TG8	SBCS	• Two-color printing • Enhanced MICR with OCR • Single-pass check handling • Document imaging	Iron gray[5]	IBM onsite repair
DI3	SBCS	Two-color printing	Pearl white[5]	Depot service
DI4	SBCS	• Two-color printing • Conventional MICR • Single-pass check handling	Pearl white[3]	Depot service
DI8	SBCS	• Two-color printing • Enhanced MICR with OCR • Single-pass check handling • Document imaging	Pearl white[3]	Depot service
DG3	SBCS	Two-color printing	Iron gray[5]	Depot service
DG4	SBCS	• Two-color printing • Conventional MICR • Single-pass check handling	Iron gray[5]	Depot service
DG8	SBCS	• Two-color printing • Enhanced MICR with OCR • Single-pass check handling • Document imaging	Iron gray[5]	Depot service

Specifications

Model numbers	TI8/DI8/TG8/DG8	TI3/DI3/TG3/DG3	TI4/DI4/TG4/DG4	TI5/TG5
Hardware				

Printing speed[6]
– Receipt station
  (one-color paper)
– Receipt station
  (two-color paper)
– Impact slip station
	Up to 52 lps @ 8 lpi, 39 lps @ 6 lpi
	
	Up to 35 lps @ 8 lpi, 26 lps @ 6 lpi
	Up to 4.3 lps
				Up to 50 lps @ 7.7 lpi
				
				Up to 30 lps
				Up to 4.3 lps

Printing resolution (thermal)	203 dpi			
Memory usage				

– Data buffer RAM
– Flash memory for
  microcode
– Flash memory for
  offline journal
– Flash memory for logos
– Flash memory for
  fixed messages
– Flash memory for
  code pages
– Flash memory for
  scanned images
– Standard flash memory
– Optional flash memory
	16KB
	
	2MB
	
	Up to 2MB
	Up to 2MB
	
	Up to 2MB
	
	80KB
	
	Up to 2MB
	4MB
	8MB
		16KB
		
		512KB
		
		104KB
		64KB
		
		8KB
		
		80KB
		
		–
		2–8MB
		–
				16KB
				
				512KB
				
				360KB
				64KB
				
				8KB
				
				1.536MB
				
				2MB
				8MB
				–

Interfaces	• Powered USB • Standard USB (external power brick required) • RS-485 • Standard RS-232 (external power brick required)			
Mounting options	Integrated with POS or distributed			
Ports	Cash drawer (one physical, two logical, +24V) RS-232 adapter only			
Physical dimensions and weight				
Dimensions (WxDxH)	190.5[7]x255x153.4mm[8] 7.5x10x6.0"	190.5[7]x255x144mm[9] 7.5x10x5.5"		
Weight	4.9kg/10.8lbs	4.4kg/9.6lbs	4.8kg/10.5lbs	4.4kg/9.6lbs
Industry standards				
Resident barcode formats	UPC A/E; JAN 8 (EAN); Code 39; ITF; Code 93; Code 128 a, b and c; Codabar; PDF417			
Options				

Integration kits	• IBM SurePOS™
	  700 Series
	• IBM SurePOS
	  4694 System
		• IBM SurePOS 500 Series (TG3, DG3, TG4, DG4, TG5)
		• IBM SurePOS 600 Series (TG3, DG3, TG4, DG4, TG5)
		• IBM SurePOS 700 Series (TI3, DI3, TI4, DI4, TI5)
		• IBM SurePOS 4694 System (TI3, DI3, TI4, DI4, TI5)		

Supply	IBM now offers branded paper supplies. For more information, visit: http://www.printers.**ibm.com**/internet/wwsites.nsf/vwwebpublished/paper_pos_ww			

Specifications (continued)

Model numbers	TI8/DI8/TG8/DG8	TI3/DI3/TG3/DG3	TI4/DI4/TG4/DG4	TI5/TG5
Software[10]				
Operating system support[11]	• IBM 4690 OS	• IBM 4690 OS • Microsoft® Windows® 2000 (Professional Edition) • Microsoft Windows 98 (Second Edition) • Microsoft Windows XP (Professional Edition) • Linux • DOS		
Drivers supported[11]	• OLE for Point of Sale (OPOS) (version 1.5.0 or later) • JavaPOS™ (version 1.5.0, Linux 1.5.1 USB or later) • POSS for Microsoft Windows (version 2.3.0 or later) • POSS for Linux (version 1.1.0 or later) • DOS			
IBM application support	• IBM 4680–4690 Supermarket Application	• IBM SurePOS ACE • IBM 4680–4690 Supermarket Application • IBM Chain Drug Sales Application • IBM 4680–4690 General Sales Application		• IBM Chain Drug Sales Application • IBM 4680–4690 Supermarket Application • IBM 4680–4690 General Sales Application
Availability				
North America	Yes[12]	Yes	Yes	No
Latin America	TI8/TG8 only	TI3/TG3 only	TI4/TG4 only	No
Europe, Middle East, Africa	No	TI3/TG3 only	TI4/TG4 only	No
Asia Pacific	No	TI3/TG3 only	TI4/TG4 only	Yes

IBM

1. Not all printer functions are emulated. For a complete list of printer emulation functions, please visit the IBM support Web site: **ibm.com**/support.
2. All limited warranty terms are for one year.
3. Bottom cover will be Litho gray with RS-485/RS-232 adapter (matches IBM SurePOS 4694 System). Bottom cover will be Storm gray with USB adapter (matches select models of the IBM SurePOS 700 Series).
4. IBM can add TI8 and DI8 functionality to TI4 printers that customers have already purchased through a depot-installed upgrade kit.
5. Matches IBM SurePOS 300, IBM SurePOS 500 Series and IBM SurePOS 600 Series systems.
6. Indicates maximum rated speed. Actual print speed depends on user-specific configuration of interface, application, operating system and drivers.
7. With overhanging ledge, width is 200.5mm (7.9").
8. Rear height is 200.5mm (7.9").
9. Rear height is 190.5mm (7.5").
10. Some printer functions may not be supported by all combinations of operating systems and drivers.
11. To obtain the latest compatibility data for operating systems, interfaces and IBM hardware, visit the IBM support Web site: **ibm.com**/support.
12. Available in the U.S. and Canada only.