Peripherals

IBM SureMark Printers – Fiscal mo

Sales reference guide

Summary

Fiscal models of the IBM SureMark™ Printer not only provide fast, quiet, high-quality thermal printing at the point-of-sale (POS), they feature a secure fiscal module with fiscal logic and memory plus physical security features. Most important, these printers are government approved for sale in their respective countries. In addition, they provide either electronic or paper-based journaling. Electronic journaling can help retailers take out costs by eliminating the manual paper-based journaling processes. All models include a thermal station that prints receipts at up to 25 lines per second (lps) to hasten checkout times while providing customers with easy-to-read transaction records. Some models also include an impact station that can print multipart forms, invoices and checks, a second thermal station for paper journaling, or both. With these fiscal printers, retailers in any segment can meet regional fiscal requirements while reducing customer wait-time and maximizing uptime. For many retailers, fiscal printers will help improve the customer experience and remove costs as they transition to retail on demand.

Key messages

1. IBM SureMark Printers provide flexible options for journaling

There are two families of fiscal models: the K-series and the G-series. All K-series models feature electronic journaling based on CompactFlash technology, which allows retailers to store months or even years[1] of transactions on a single, removable module. This eliminates the cost of purchasing, handling and storing paper journal rolls. All G-series models feature a thermal journal print station designed for retailers that prefer paper-based journaling or retailers operating in countries that require paper journaling.

2. IBM SureMark Printers can customize receipts

Receipts can be used as a powerful marketing tool and as a way to streamline returns processes. IBM SureMark Printers store images in flash memory, which enables retailers to print logos, barcodes, graphics or text messages on receipts without affecting customer wait-time (local laws in fiscal countries may restrict graphics printing on receipts). Logos can help build the store's brand. Bar codes can be used to process returns quickly and reduce fraud. Graphics can increase the visibility of special offers or coupons.

3. IBM SureMark Printers are easy to use and service

All K-Series models feature a smaller footprint than other impact fiscal printers, so they take up very little counter space. Because G-Series models are the same size as previous IBM fiscal printers, they can be integrated easily at the POS. Paper handling in all models is easy, and operators can change paper rolls quickly without making customers wait. These printers also have a snap-together design, which simplifies maintenance.

4. IBM SureMark Printers can be used worldwide

The complete portfolio of IBM SureMark Printers allows international, multinational and global retailers to use a single printer platform to meet fiscal requirements in every store worldwide. This improves service and support efficiency. All models also feature similar application interfaces, which make it easy to upgrade software and drivers.

5. IBM SureMark Printers offer strong investment protection

All fiscal RS-485 models of IBM SureMark Printers offer emulation[2] of the receipt and document insert stations for the fiscal models of IBM Model 3 printers. This allows retailers to replace existing printers with IBM SureMark Printers to upgrade print speed, print quality and overall ease of use – without incurring the time and cost required to reconfigure existing POS software.

Solution features and benefits

IBM SureMark Printer, fiscal models

Features	Benefits
Fast, high-quality thermal receipt printing	Helps retailers complete transactions more quickly, and enables printing of logos, barcodes, coupons and marketing messages directly on customer receipts
Impact print station (models GR3, GB3, GE3, KR3, KC4, KD3, KR4)	Provides fast, high-quality output for single and multipart forms
Secure fiscal module with fiscal logic and memory	Ensures compliance with fiscal regulations
Physical security features for journal	Uses keylocks to secure the journal roll or the CompactFlash module to meet governmental requirements (model and country dependent)
Range of models covers 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
Smaller footprint than prior impact fiscal printers (models KR3, KR5, KC4, KC5, KD3, KD5)	Conserves counter space at the POS
Same size as prior fiscal printers from IBM (models GR3, GR5, GB3, GB5, GE3)	Protects investments by easing integration of new printers at the POS
Supports electronic journaling via CompactFlash storage technology (models KR3, KR5, KC4, KC5, KD3, KD5)	Enables retailers to store transactions on a single, removable chip, eliminating the costs of purchasing, managing and storing paper journal rolls
Built-in power supply (models GR3 and GE3, Argentina only)	Ensures compliance with fiscal laws in Argentina
Simple paper handling, including easy installation and removal of receipt and journal paper rolls	Reduces customer delays at the POS when paper runs out
Transparent emulation of prior fiscal printers from IBM (RS-485 interface only)	Allows retailers to upgrade print speed without changing the POS application
Choice of interfaces	Enables retailers to attach printers to a wide range of IBM and non-IBM systems, allowing them to select the best one for their stores and still meet fiscal requirements
Thermal paper journal printing station (models GR3, GB3, GB5, GR5, GE3)	Enables retailers to retain proven processes for conventional handling of paper journal data
Versatile check handling (models KC4, KR4, KS4, GR4)	Provides check endorsing and printing capabilities to accelerate check processing at the POS, plus MICR reading and single-pass check handling with check endorsing and check flipping for more advanced check management

Positioning

Portfolio comparison

To ensure accurate reporting of revenue, many nations have strict fiscal requirements that regulate how POS terminals record sales transactions. While specific fiscal requirements vary from country to country, there are common elements. For example, sales transaction data printed on a customer's receipt must match the data shown on the POS display and recorded on the system journal. Also, summary transaction data must be recorded in tamper-proof, nonvolatile memory and be available on demand to government officials. Fiscal models of the IBM SureMark Printer family are designed to address these concerns, as well as many other regional and local laws.

Target market

1. *Tier-one, -two, -three and -four retailers in fiscal countries*

   These retailers must meet rigorous fiscal regulations or face stiff penalties. Fiscal models of IBM SureMark Printers are an outstanding choice for these retailers. They provide the security features that each nation demands, plus they deliver the fast, quiet and high-quality thermal printing that customers expect from the IBM SureMark brand. By choosing these printers, retailers can enjoy the advantages of thermal printing while easily meeting their local fiscal requirements.

Models overview

Model	Nations	MICR	Print stations	Attachment	Cover color
GR3	Argentina, Greece, Italy, Turkey	No	Thermal receipt, impact document insert, thermal journal	RS-485	Pearl white top, litho gray base
GR4	Venezuela	Yes	Thermal receipt, impact document insert, thermal journal	RS-485	Pearl white top, litho gray base
GR5	Greece, Italy, Turkey	No	Thermal receipt, thermal journal	RS-485	Pearl white top, litho gray base
GB3	Greece, Turkey	No	Thermal receipt, impact document insert, thermal journal	USB	Iron gray
GB5	Greece, Turkey	No	Thermal receipt, thermal journal	USB	Iron gray
GE3	Argentina	No	Thermal receipt, impact document insert, thermal journal	USB	Iron gray
KR3	Hungary, Italy	No	Thermal receipt, impact document insert	RS-485	Pearl white top, litho gray base
KR5	Hungary, Italy	No	Thermal receipt	RS-485	Pearl white top, litho gray base
KC4	Chile	Yes	Thermal receipt, impact document insert	RS-232	Pearl white top, litho gray base
KC5	Chile	No	Thermal receipt, impact document insert	RS-232	Pearl white top, litho gray base
KD3	Hungary, Italy	No	Thermal receipt, impact document insert	RS-232	Iron gray
KD5	Hungary, Italy	No	Thermal receipt	RS-232	Iron gray
FV5	Poland	No	Thermal receipt, impact document insert, thermal journal	RS-232	Pearl white top, litho gray base
KS4	Chile	Yes	Thermal receipt, impact document insert	RS-485	Pearl white top, litho gray base
KS5	Chile	No	Thermal receipt, impact document insert	RS-485	Pearl white top, litho gray base
KR4	Brazil	Yes	Thermal receipt, impact document insert	RS-232	Pearl white top, litho gray base

Specifications

Models	KR3, KR5, KD3, KD5, KR4	KC4, KC5, KS4, KS5	FV5, GR3, GB3, GB5,GR4, GR5, GE3
Hardware			
Maximum printing speed[3] Thermal receipt station Impact slip station Thermal journal station	 25 lps @ 8 lpi 3 lps (KR3, KD3, KR4) –	 25 lps @ 8 lpi 3 lps (KC4, KS4) –	 25 lps @ 8 lpi 3 lps (GR3, GB3, GE3) 25 lps @ 8 lpi
Printing resolution (thermal)	203 dpi		
Electronic journal media	Yes (32 to 128MB) CompactFlash (removable)	Yes (64MB) CompactFlash (non-removable)	No
Interfaces Standard universal serial bus (USB)[4] RS-485 Standard RS-232[5]	 No KR3, KR5 KD3, KD5, KR4	 No KS4, KS5 KC4, KC5	 GB3, GB5, GE3 (internal power supply) GR3, GR5 FV5
Mounting options	Integrated with POS or distributed		
Ports Display port connection and sense RS-232 audit port[6] Cash drawer (+24V)	 Yes (KD3, KD5 Hungary) No Yes (KD3, KD5)	 No No Yes	 Yes Yes (GE3, GR3 Argentina; GR5 Greece) Yes (GB3, GB5, GE3)
Physical dimensions and weight			
Dimensions (WxDxH)	190.54[7]x255x144mm[8] 7.5[7]x10x5.5"[8]		322x255x144mm[8] 12.7x10x5.5"[8]
Weight	9.6lbs/4.4kg	10.5lbs/4.8kg	15.15lbs/6.89kg
Software[9]			
Operating systems supported[10]	• IBM 4690 Operating System • Microsoft® Windows® 2000 (Professional Edition) • Microsoft Windows 98 (Second Edition) • Microsoft Windows XP (Professional Edition) • IBM Retail Environment for SUSE LINUX • DOS		
Drivers supported[10]	• JavaPOS™ for Microsoft Windows (version 1.2 or later) • JavaPOS for Linux (version 1.5.1 or later) • POSS for Microsoft Windows (version 1.2 or later) • POSS for Linux (version 1.5.1 or later) • POSS for DOS (version 2.1.0 or later)		
Industry standards			
Resident barcode formats	UPC A/E, JAN 8 (EAN), JAN 13 (EAN), Code 39, ITF, Code 93, Code 128 a, b and c, Codabar, PDF417		
Supply options			
Supply	IBM now offers branded paper supplies. For more information, visit: www.printers.**ibm.com**/internet/wwsites.nsf/vwwebpublished/paper_pos_ww		

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[1] Amount of data stored depends on local requirements, memory module size and usage.

[2] Not all printer functions are emulated. For a complete list of printer emulation functions, please visit the IBM support Web site: **ibm.com**/support.

[3] Indicates maximum rated speed, which may not be achievable in all countries. Actual print speed depends on user-specific configuration of interface, application, operating system, drivers and fiscal law.

[4] A power brick is required for standard USB interfaces.

[5] A power brick is required for standard RS-232 interfaces.

[6] The RS-232 audit port is only supported for select models in Argentina and Greece.

[7] With overhanging ledge, width is 200.5mm (7.9").

[8] Rear height is 190mm (7.5").

[9] Some printer functions may not be supported by all combinations of operating systems and drivers.

[10] To obtain the latest compatibility data for operating systems, interfaces and IBM hardware, please visit the IBM support Web site: **ibm.com**/support.