

RE4800AS: Selling the IBM SurePOS™ 720, 740, and 780 Course Update

Note: This document is intended to supplement the downloadable base course, RE4800A: *Selling and Supporting the IBM SurePOS 720, 740, and 780*. IBMers and Business Partners should also see RE4800P: *Operating System Preload for the SurePOS 700 Series*.



Overview

IBM announces the addition of several new models to the SurePOS 700 portfolio. To retain its status as IBM's most powerful point-of-sale (POS) system, these new models offer technology advancements that have never been seen before.

Select models boast of:

- Processor speeds up to 3 GHz that are 64-bit-enabled
- Hard disk drives equipped with Serial Advanced Technology Attachment
- Faster Double Data Rate II memory
- Redundant Array of Independent Disks (RAID) technology
- SurePorts upgraded to USB 2.0

Processor upgrades include moving the 780 and 740 models to faster processors that are 64-bit-enabled. Model 720 is moving to Pentium 4 (P4) architecture.

Double Data Rate II (DDR II) memory is twice as fast as its predecessor, DDR.

Serial Advanced Technology Attachment (SATA) is an advancement of the Parallel ATA physical storage interface protocol. SATA provides a serial connection using a single thin cable with point-to-point connection between devices. The thinner serial cable allows better internal airflow, can extend up to one meter, and has transfer rates starting at 150 MBps.

Redundant Array of Independent Disks (RAID) support on the system board, along with the addition of a second hard-disk drive, facilitate disk mirroring and effectively reduces downtime, which can devastate a small retail store environment that has two or three registers.

All **SurePorts** are now USB 2.0

New Models

The new models of the IBM SurePOS 700 family are:

Performance models	IBM SurePOS 780	782
	IBM SurePOS 780 Administrative model for U.S. supermarkets. It has a narrow footprint.	S82*
Value models	IBM SurePOS 740	742
	IBM SurePOS 740 Controller (Available with an internal SATA CD-ROM and DVD burner)	C42
	IBM SurePOS 740 Administrative model for U.S. supermarkets. It has a narrow footprint.	S42*
Entry model	IBM SurePOS 720	722
	IBM SurePOS 720 Administrative model for U.S. supermarkets. It has a narrow footprint.	S22*

* Different maintenance pricing applies.

Availability

All new SurePOS 7x2 models, except the Sx2 series, will be available worldwide. Planned availability is July 29, 2005. Models S82, S42, and S22 are only available in the United States.

Models at a glance

The following chart provides a contrast of the previous technology to the new technology used in this next-generation SurePOS 700 family.

	SurePOS 780 Model 782		SurePOS 740 Model 742		SurePOS 720 Model 722	
	From...	To...	From...	To...	From...	To...
Processor	Intel Pentium® 4 2.4 GHz 533 MHz FSB	Intel Pentium® 4 531 3 GHz 800 MHz FSB 64-bit enabled	Intel® Celeron™ 2 GHz 400 MHz FSB	Intel® Celeron™ D 326 2.5 GHz 533 MHz FSB 64-bit enabled	VIA C3 1.2 GHz 133 MHz FSB	Intel® Celeron™ 2.0 GHz 400 MHz FSB
Storage	80 GB ATA/100 7200 rpm standard	80 GB Serial ATA 7200 rpm standard	40 GB ATA/100 7200 rpm optional	80 GB Serial ATA 7200 rpm optional	40 GB ATA/100 7200 rpm optional	40 GB Serial ATA optional
			C41 40 GB HDD standard	C42 40 GB Serial ATA 7200 rpm standard		
Memory	512 MB DDR 2 GB max	512 MB DDR II 2 GB max	256 MB DDR 2 GB max	256 MB DDR II 2 GB max	128 MB 512 MB max	128 MB DDR 2 GB max
			C41 512 MB DDR 2 GB max	C42 512 MB DDR II		
Video		Up to 64 MB shared		Up to 64 MB shared	Up to 32 MB shared	Up to 64 MB shared

Media Options

Model	Internal CD	Internal DVD Burner	External USB CD-ROM	External USB Floppy	2nd Hard Disk Drive
782	√		√	√	√
742	√		√	√	√
C42	√	√	√	√	√
722			√	√	

Operating System Support

One of the following operating systems with POSS support is required to run the SurePOS 722, 742, and 782 models:

- IBM Retail Environment for SUSE LINUX V2
- IBM 4690 OS V3R3 or higher
- Microsoft® Windows® 2000
- Microsoft Windows XP Professional with Service Pack 2
- Microsoft Windows XP Embedded with Service Pack 2
- Microsoft Windows Embedded for Point of Service
- IBM PC DOS 2000

Hardware Driver Requirements

All SurePOS 7x2 models require drivers for 10/100 Mb/s Ethernet connectivity. You can download POSS, Ethernet, and video drivers from IBM's support Web site by following these steps:

1. Access <http://www.ibm.com/solutions/retail/store>.
2. Select **Support** in the left navigation panel.
3. Select **IBM SurePOS 700 series**.
4. Click the **All SurePOS 7x1 downloads** link.
5. Search for Ethernet.

Driver Support

Driver support is available from the support Web site. The SurePOS 7x2 series supports the following drivers:

- UPOS 1.7.5 (includes OPOS, JavaPOS, and POSS LIN)
- POSS DOS 2.1.1

Application Support

A broad choice of IBM and Business Partner applications are available for the SurePOS 7x2 models. Retailers can choose from the following:

- IBM application support with 4690 OS V3R3, V4,, or Windows with DDS/CSF V2 (5697-G77/G78)
- SurePOS ACE
- Chain Drug Sales Application base plus maintenance level 9701 or later
- 4680-4690 Supermarket Application base plus maintenance level 9701, or later, APAR IR33229, and PRPQ 5799-QYL
- 4680-4690 General Sales Application base plus maintenance level 9701, or later, APAR IR33228, and PRPQ 5799-QYN
- Electronic Journal for 4690 OS (5697-G45)

Physical Specifications

	Wide footprint	Narrow footprint
Width	442 mm 17.4 in	320 mm 12.6 in
Depth	475 mm 18.7 in	475 mm 18.7 in
Height	116 mm 4.6 in	116 mm 4.6 in
Weight	11.8 kg Without internal UPS 26 lb	10 kg 22 lb
	17.7 kg With internal UPS 39 lb	

Feature Codes

Geography	Models	Description	Feature Code
U.S., CAN	All	MES USB 2.0 SurePorts	1997
	782, 742, 722	MES RS-485 and USB 2.0 mix SurePorts	1996
	782, 742, 722	MES RS-232 and USB 2.0 mix SurePorts	1998
	C42, S42	PS/2 preferred pro 104-key keyboard U.S. English	3119
	722, S22	40-GB system HDD (7200.rpm)	7985
	722, S22	40-GB MES HDD (7200.rpm)	7986
	742, S42	40-GB system SATA HDD (7200.rpm)	7991
	742, S42	40-GB MES SATA HDD (7200.rpm)	7992
	742, C42, S42	40-GB system 2 nd SATA HDD (7200.rpm)	7993
	742, C42, S42	40-GB MES 2 nd SATA HDD (7200.rpm)	7994
	782, S82	80-GB System 2 nd SATA HDD (7200 rpm)	7995
	782, S82	80-GB MES 2 nd SATA HDD (7200 rpm)	7996
	C42	System SATA DVD burner	7913
	C42	MES SATA DVD burner	7914
	All	External USB floppy drive	7500

	All	External USB CD-ROM	7800
	782, S82, 742, S42	24X system CD-ROM	7912
	782, S82, 742, C42, S42	24X MES CD-ROM	7907
	722, S22	256-MB DDR additional memory	7764
	722, S22	256-MB DDR system memory	7767
	722, S22	512-MB DDR additional memory	7783
	722, S22	512-MB DDR System Memory	7788
	722, S22	1-GB DDR additional memory	7785
	722, S22	1-GB DDR system memory	7789
	782, S82,742, C42, S42	256-MB DDR II additional memory	7810
	782, S82,742, C42, S42	512-MB DDR II additional memory	7811
	742,S42	512-MB DDR II system memory	7812
	782, S82,742, C42, S42	1-GB DDR II additional memory	7813
	742, S42	1-GB DDR II System Memory	7814
	782, S82, C42	1-GB DDR II System Memory	7815
	782, S82, 742, C42, S42	PCI express riser	7595
	782, S82, 742, C42, S42	MES PCI Express riser	7596
	782, S82, 742, C42, S42	VGA PCI adapter for dual display	7358
	782, S82, 742, C42, S42	MES DVI PCI 32-M adapter (Radeon)	7358
	All	Universal coupler power cord (distributed)	7350
	All	NVRAM PCI Card upgrade	7355

Geography	Models	Description	Feature Code
AP, LA, EMEA	782, 742, C42, 722	MES USB 2.0 SurePorts	1997
	782, 742, 722	MES RS-485 and USB 2.0 mix SurePorts	1996
	782, 742, 722	MES RS-232 and USB 2.0 mix SurePorts	1998
	C42	PS/2 preferred pro 104-key keyboard U.S. English	3119

	722	40-GB System HDD (7200 rpm)	7985
	722	40-GB MES HDD (7200 rpm)	7986
	742	40-GB system SATA HDD (7200 rpm)	7991
	742	40-GB MES SATA HDD (7200 rpm)	7992
	742, C42	40-GB system 2 nd SATA HDD (7200rpm)	7993
	742, C42	40-GB MES 2 nd SATA HDD (7200 rpm)	7994
	782	80-GB system 2 nd SATA HDD(7200rpm)	7995
	782	80-GB MES 2 nd SATA HDD (7200 rpm)	7996
	C42	System SATA DVD burner	7913
	C42	MES SATA DVD burner	7914
	782, 742, C42, 722	External USB floppy drive	7500
	782, 742, C42, 722	External USB CD-ROM	7800
	782, 742	24X system CD- ROM	7912
	782, 742, C42	24X MES CD-ROM	7907
	722	256-MB DDR additional memory	7764
	722	256-MB DDR system memory	7767
	722	512-MB DDR additional memory	7783
	722	512-MB DDR system memory	7788
	722	1-GB DDR additional memory	7785
	722	1-GB DDR system memory	7789
	782, 742, C42	256-MB DDR II additional memory	7810
	782, 742, C42	512-MB DDR II additional memory	7811
	742	512-MB DDR II system memory	7812
	782, 742, C42	1-GB DDR II additional memory	7813
	742	1-GB DDR II system memory	7814
	782, C42	1-GB DDR II system memory	7815
	782, 742, C42	PCI express riser	7595
	782, 742, C42	MES PCI express riser	7596
	782, 742, C42	VGA PCI adapter for dual display	7358
	782, 742, C42, 722	MES DVI PCI 32 M adapter (Radeon)	7358
AP, EMEA		High-voltage UPS MES (wide)	7588
Japan only	All	Factory setup	7000
	All	Universal coupler power cord (distributed)	7350
	All	NVRAM PCI Card upgrade	7355

Specify Codes

Use the following specify codes when ordering.

Low-voltage power supply (100-127 V input)	2900
High-voltage power supply (200-240 V input)	2901
Storm gray (light)	2920
Iron gray (dark)	2921
Litho gray (classic)	2923
Vertical mounting stand	7221

Publications

A variety of publications can be downloaded from the Retail Store Solutions Web site at www.ibm.com/solutions/retail/store/support/. Current publications include the following:

- *Installation and Operation Guide*
- *Hardware Service Guide*
- *System Reference*

Additional information

Marketing collateral can be ordered through IBM's literature on Demand Web sites as follows:

IBM Employees	w3.printers.ibm.com/sales/catalogs.nsf/agrsscatalogint
Business Partners	www.printers.ibm.com/sales/catalogs.nsf/agrsscatalog