

System Comparison

Vendor	IBM	Micros
Product	SurePOS 500	Workstation 4
Model Number	4840-401 (514)	
Target Segment(s)	Food Service, Hospitality, Specialty, Lottery	Food Service, Hospitality
Form Factor (Foot Print)	Integrated system unit and LCD display	Integrated system unit and LCD display
Mounting Options	Counter, Wall	Counter, Stand, Wall
Integration Trays	Yes	No
Display		
Screen Size	12.1" (Low/High Bright) Single Bulb	12.1" TFT Active Matrix (300 NIT)
Touch Technology	5-wire Resistive	5-wire Resistive
Dual LCD Support	None	None
Processor	1.2GHz VIA C3 (133MHz FSB) Processor soldered	National Semiconductor Geode SC3200 (Integrated System-On-Chip)
Processor (upgrades)	None	None?
Memory		
Base Memory	256MB (2x DIMM)	128MB (1x DIMM)
Memory Capacity	up to 2GB	up to 256MB
Video Memory	64MB UMA video memory	unknown

Multi-Media Support	128 bit 2D & 3D graphics engine / integrated video accelerator	No
Storage / Expansion		
PCI Slots	No (USB 802.11b/g wireless dongle) Antenna enclosure	PCMCIA slot
Hard Disk Drive	1x 40GB (3.5") 7200 rpm	None. Uses removable flash memory (see compact flash)
Floppy Disk Drive (1.44MB)	Via USB port	Via USB port
CD-ROM	Via USB port	Via USB port
Compact Flash	512MB CF (opt.)	32MB socketed Disk-On-Chip (Standard 50-pin Type 1 CF - expandable to 1GB)
Connectivity		
Tailgate	Fixed	Cable mgt uses a "grid of loops" to secure cabling
Video	VGA	VGA
RS-232	3x std. / 1x power	1x 9-pin RS-232 1x IDN (RJ45 RS-422/RS-485/RS-232) 1x LCC (RJ45 RS-422/RS-485/RS-232)
USB standard PC (5V)	4x USB (2.0)	2x USB (1.1)

Powered USB (12V or 24V)	1x 24V USB	No
PS/2 Keyboard / Mouse	1/1 (back only)	1/1
RJ45 Ethernet (LAN) 10/100	1	Yes
Parallel	No	No
Cash Drawer	2 (24v)	2x Micros Cash Drawer Ports

AC (24V for Printer) Power Connector	Via powered USB	No
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Microphone / Headphone	Headphone - Audio line out	No
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Customer Display Port	No. Use industry standard RS-232 or USB connectivity	1x Micros external 4-pin mini-DIN connector
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Dimensions

12-inch (WxDxH)	12.6" x 12.8" x 15.1" 321mm x 325mm x 384mm	13.7" x 11.7" x 5.4" (w/o stand) 348mm x 297mm x 137mm (w/o stand) 13.7" x 9.8" x 12.8" (w/ stand) 348mm x 250mm x 326mm (w/ stand)
15-inch (WxDxH)	N/A	N/A
17-inch (WxDxH)	N/A	N/A

Weight

12-inch	23 lbs/10.5 kg (without MSR)	7.75 lbs/3.5 kg
15-inch	N/A	
17-inch	N/A	

Power Management

APM, ACPI

unknown

Systems Management

WfM, WOL, SMBIOS, PXE

WOL

Power Supply76W /200W max. Universal
Switched Power SupplyPassively cooled (No fans)
Internal power supply / Universal Input**Operating Systems**DOS, Linux (IBM IRES - SuSe
Linux SLES 8 and 9), WIN 2K,
WIN XPp, WIN Xpe, WEPOS

WIN CE .NET 4.1

WIN CE Notes

See notes

See notes

Motion / Presence Sensor

No

No

Customer DisplaysIntegrated and Distributed
(attached via powered RS-232
port) - opt.Integratred and Distributed
(1x Micros external 4-pin mini-DIN
connector)

Spill Resistant	Yes. Spill resistant interface between mating surfaces including touch screen, LCD, and plastic bezel	Yes. Touchscreen sealed with O-ring, MSR channels liquid spills out of casework
Warranty	1-Year Depot	1-Year Depot
Other	<p>One color - iron gray</p> <p>MSR - opt. (serial interface)</p> <p>0 to 60 degrees (tilt)</p> <p>Locking hinge mechanism</p> <p>RoHS compliant (lead-free and other banned substances)</p>	<p>Micros Grey</p> <p>3-track MSR</p> <p>25 to 70 degrees (tilt)</p> <p>"self-tightening" hinges</p> <p>"Tight integration between HW, SW and Micros 3700 application SW"</p> <p>No moving parts</p>

IBM Advantage	Notes
+ - =	
=	N/A
=	N/A
=	N/A
+	Allows efficient use of critical counter space by integrating peripherals.
= / -	IBM use of low/high bright (single bulb) nearly as bright as comparable dual bulb configurations. Meets wider range of retailer needs. Exceptional image quality and improved screen visibility, even in brightly lit areas.
=	N/A
=	N/A
+	Faster VIA-class processor helps ensure quicker sales and service transactions to speed checkout and improve customer service. Micros uses Geode SC3200 processor that is found in network appliances, PDAs, cell phones, etc.
?	N/A
+	More memory available as "standard" saves retailer money.
+	More memory capacity help ensure quicker sales and service transactions to speed checkout and improve customer service.
?	N/A

+ IBM SP500 (4840-XX3) has "some" multi-media capabilities. Video accelerator provides smoother frame rate and ability to display both 2D & 3D graphics and video.

= Enables wireless POS terminals for more flexible store planning.

+ Provides more data and application storage options.

= N/A

= N/A

-- No counter.

+ SP500 uses a fixed tailgate with cable clamp. As operators tilt and adjust LCD panel - the peripheral cabling does not move. This greatly minimizes the risk of cable unseating and potentially saves a costly service call.

= N/A

+ Micros IDN & LCC are switchable ports. The two RJ45 serial ports provide the WS4 with legacy IDN and LCC support. The IDN port allows the WS4 to interface w/ Micros IDN devices (e.g. printers). The LCC port allows WS4 to interface over legacy RS-422 serial lines (replacement for Micros UWS/3 terminals)

+ Twice the number of USB ports provides retailer greater peripheral flexibility. Extra ports allow retailers to add more peripherals later, without buying a new system - which improves investment protection. USB (2.0) data transfer rate faster than USB (1.1).

+ Powered USB allows retailer to attach peripherals (e.g. printers) without the need for external power bricks. Latching mechanism prevents cabling from being removed accidentally.

= N/A

= N/A

= N/A

+ Micros cash drawers are proprietary. Typically, FS&H customers either use a RJ-11 port via the printer or industry-standard RS-232 connectivity.

+ Powered USB allows retailer to attach peripherals (e.g. printers) without the need for external power bricks. Latching mechanism prevents cabling from being removed accidentally.

+ Aids retailer in terminal computer-based training. Employee can train at POS without disturbing other lanes.

+ Micros pole display port is proprietary. Typically, retailers use industry-standard RS-232 connectivity.

-- Micros WS4 has smaller footprint.

N/A

N/A

-- Micros WS4 weights less.

N/A

N/A

?

Eliminates wasted power consumption when system is idle, which keeps energy costs down and saves retailers money, especially for enterprises with hundreds of terminals.

+

Allows remote management of POS terminals to significantly reduce time and cost associated with uploading, upgrading, and updating terminals for system images and maintenance and remote access features (debug, logs, check settings).

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No counter.

+

Broader operating system support, including Linux, increases flexibility, options for expandability and investment protection.

+

Using WIN CE: You must build a terminal image using WIN CE Builder tools (OS + application) - put it on flash, where it resides as a binary image. This embedded image cannot be changed on the fly. Only non-critical files may be changed. To update image, the system must be powered down, the new image loaded (CD-ROM backpack or server). Micros serves as the gatekeeper - customer does not have choice of open system applications.

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N/A

+

Micros pole display port is proprietary. Typically, retailers use industry-standard RS-232 connectivity.

= N/A

= N/A