



WS5A

Hardware

The MICROS Workstation 5A (WS5A) elevates the performance and configurability of the industry leading MICROS WS5 with the introduction of an all new main board based on the latest Intel Atom processor technology. The new Workstation provides dramatic enhancements to processing capability, expansion and peripheral connectivity, while maintaining MICROS commitment to providing customers with dependable, easy-to-use hardware specifically designed for the hospitality and retail industries. With the WS5A, MICROS provides a point-of-sale terminal that has outstanding performance for all uses, ensures maximum reliability by having no moving parts, and sips electrical power to be more environmentally and economically responsible than competitive devices. The need for dependable, easy-to-use devices in the hospitality & retail market places is obvious. To be successful, POS terminals need to meet the requirements of the industry. They must be easy to install, reliable, unobtrusive, and adaptable. And, when required, service must be quick and intuitive in order to keep down time to an absolute minimum.



Back Office, Business Intelligence,
Customer Relationship Management,
Enterprise Support Solutions, Hardware,
Point-of-Service, Restaurant Operations,
Service Solutions

Benefits Overview

Updated Form Factor and Features

- 15" LCD Touchscreen
 - 5-Wire Resistive Touch (*Capacitive Touchscreen and No Touch Options*)
 - 1024 x 768 Resolution
- Integrated Audio with Stereo Speakers Standard
- Slim Line Integrated Modular MSR
- Wireless 802.11a/b/g/n options
- Biometric Support
- Remote management with Athena™, by Odyssey Software

Increased Performance

- Intel Atom N450 Processor meets the difficult balance of excellent performance and low thermal output
 - Persistent Storage using SATA hard drive or solid state USB Flash Drive for primary storage
 - 2G of DDR2 667 RAM supported
- Eight USB 2.0 ports provide data speeds 40 times faster than USB 1.1
- Supports 10/100/1000 Base-T Ethernet

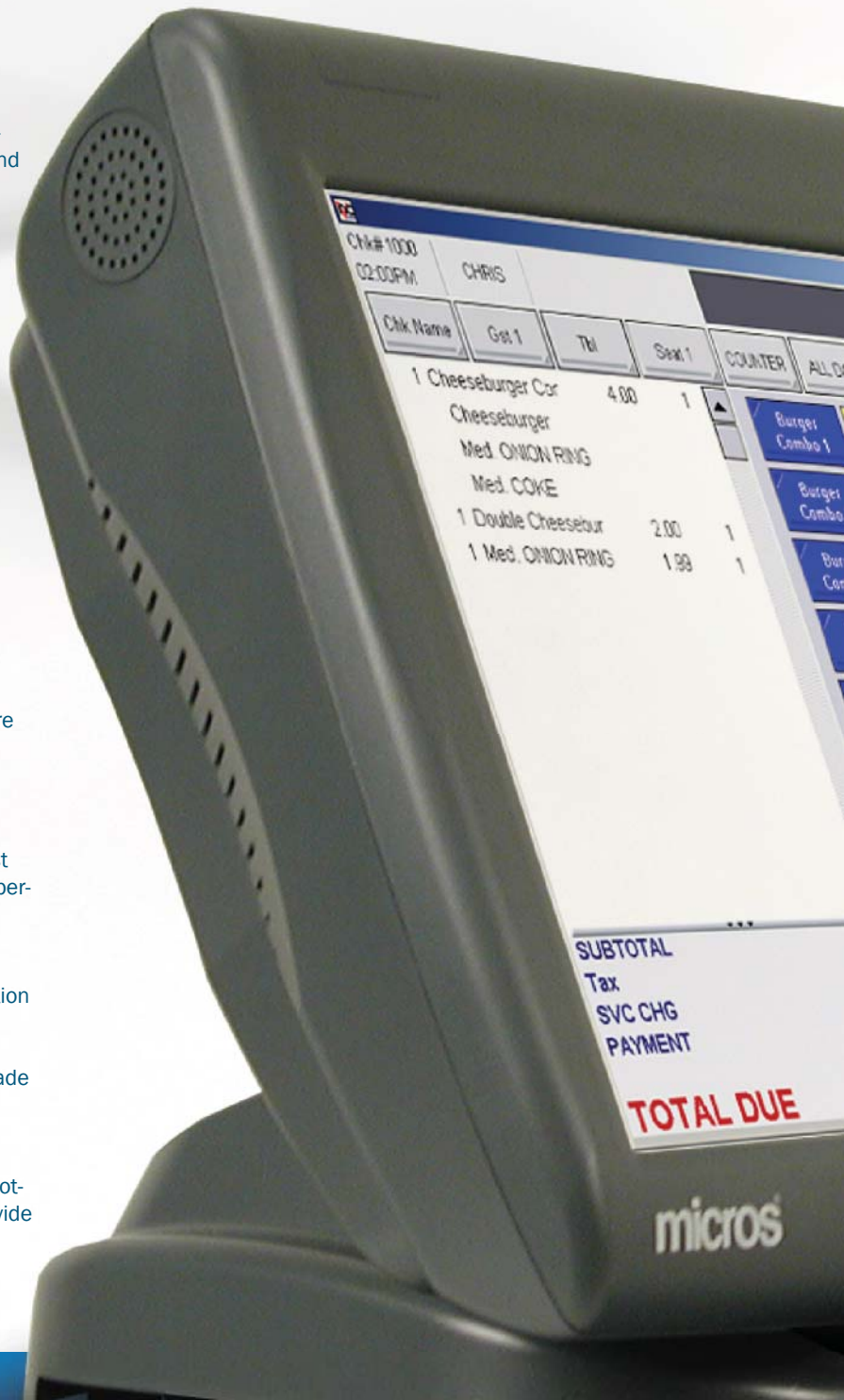
Flexible Installation Options

- Adjustable Stand
 - Improved cable management
 - Easy installation, even with maximum cables installed
 - Printer power supply protection
 - Customer display mounting option
- VESA 100 mounting pattern
- Support for MICROS cash drawers, customer displays, and IDN printers
- MICROS Factory Recovery for quick restore

Enhanced Platform Options

- Windows® Embedded CE 6.0 R3
 - Lower Operating System License cost
 - Less Maintenance and Long Term Operating System Support
 - Ability to Upgrade OS Remotely
- MICROS CAL
 - Maintains correct version of application and platform
 - Provides unattended Windows® CE operating system and platform upgrade capability
- Integrated Platform Recovery Utility
- Enhanced suite of diagnostic tools
- Interactive support for remote troubleshooting, diagnosis and repair of terminals provided by Athena™, by Odyssey Software

As always, MICROS acknowledges and appreciates our partners' commitment to our products. Customers with a large investment in MICROS peripherals can be assured that their cash drawers, printers, and customer displays will be supported by the WS5.



WS5A SPECIFICATIONS



WS5A Feature Summary

Processor	■ Intel Atom N450
Operating System	■ Microsoft® Windows® CE 6.0 R3
Volatile Memory	■ Up to 2GB DDR2 667 RAM (Two SODIMM Sockets) 512MB DDR2 667 Standard for Win CE 1GB DDR2 667 Standard for POSReady 2009 (CE 6.0 does not utilize more than 512MB physical memory)
Mass Storage	■ Internal eUSB Flash Drive – Standard for Win CE & POSReady Configurations Optional 2.5" SATA Drive Support
Removable Storage	■ 256 MB Compact Flash – Standard for Win CE Configuration
Networking	■ 10/100/1000BaseT on Board
Display	■ 15" TFT Active LCD XGA Resolution (1024x768) 16M Color 2nd Display Output - (Dual Independent Display w/POSReady 2009)
Touch screen	■ 5-Wire Resistive Touch Screen Standard Capacitive Touch Screen Optional
Power Supply	■ Internal, Universal Input / Auto-Switching
Magnetic Stripe Reader	■ 3 Track Modular Integrated Reader Standard
Audio	■ Intel HD Audio ■ 2 Integrated Stereo Speakers Standard Line Out & Mic In Ports on I/O Panel
Cash Drawer Ports	2 - MICROS Cash Drawer Ports 12/24V Selectable Through BIOS
Serial Ports	■ 4 - 1 Nine Pin RS-232, 2 RJ45 RS-232, 1 RJ45 IDN (RS422/485/232 Switchable)
Customer Display Port	■ 2 - 1 External 4 Pin Mini-DIN Connector for Pole Display, 1 External 7 Pin Header for Integrated Customer Display
USB Ports	■ 8 – 4 External USB 2.0, 1 Internal USB 2.0 Headers for Flash Drive, 2 Internal Headers for Options, 1 Optional Powered USB Port, Selectable Voltage
Expansion Ports	■ Mini-PCI Express Card
Dimensions	■ 15.4"W x 13.0"D x 4.3"H (390mmW x 330mmD x 110mmH)
Weight	■ 10.5lbs. (4.7kg.) / Shipping Weight 14lbs. (6.35kg.)
Enclosure	■ Rugged PC-ABS Plastic Blend, Spill Resistant Enclosure. (MICROS Grey) Passive Cooling (No Fans)
Operating Temp	■ 0° C to 45° C (32° to 113° F)
Certifications	■ FCC Class A, UL, CE, TUV, CCC, RoHS, China RoHS





7031 Columbia Gateway Drive
Columbia, MD 21046-2289, USA
www.micros.com

Sales information:
(443) 285-6000
(866) 287-4736 (US and Canada)