



## Hardware

Since the release of the revolutionary MICROS Workstation 4 (WS4) point-of-sale (POS) terminal in 2003, MICROS has installed almost 200,000 units around the world. With the WS4, MICROS led a transition in POS technology away from complicated and costly PC-based hardware, to lower-cost, more reliable, solid-state POS appliances that provide superior functionality with the lowest total-cost-of-ownership on the market. Continuing that leadership, the Workstation 4 LX (WS4 LX) provides all of the same benefits, while providing a 3X improvement in performance.



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

# Benefits Overview

## Reliable

- Solid-state design that is reliable and rugged
- Microsoft® Windows® CE 6.0 is a secure, lower-cost operating system
- Passively cooled and uses flash memory for mass storage

## Diskless and Fanless

- No fans or hard drive make the WS4 LX more reliable and less costly to run than traditional PC-based devices

## Quiet

- The WS4 LX has no moving parts, so there is no noise to announce its presence

## Environmentally Friendly

- Compliant with the European Union Directive on Restriction of Hazardous Substance (RoHS) requirements and the latest Chinese environmental requirements
- The WS4 LX requires less than ½ the energy of typical PC based devices, cutting power costs by 50%

## Easy to Install and Service

- Pre-loaded with MICROS CAL (Client Application Loader) making installation as easy as plugging in a network and power cable
- Depot Friendly
  - Simple to swap with a handy spare
  - Removable “personality module” on an off-the-shelf compact flash card stores a record of key information
  - MICROS service providers pick up and repair the inactive workstation at your convenience

## Compact

- The WS4 LX can be placed or mounted to meet your specific needs and connected to a wide range of POS peripherals

## Tight Integration

- The joint development of cohesive hardware, platform software, and application software results in an extremely robust, easy-to-use point-of-sale appliance

## Automatic Upgrades

- Operating system and software upgrades can be performed automatically and unattended



# WS4<sub>LX</sub> SPECIFICATIONS



|                                   |   |
|-----------------------------------|---|
| Processor                         | <ul style="list-style-type: none"> <li>■ AMD Geode LX800 with CS5536 Companion Chip               <ul style="list-style-type: none"> <li>● 32-bit x86 processor</li> </ul> </li> </ul>                  |
| Operating System                  | <ul style="list-style-type: none"> <li>■ Microsoft Windows CE 6.0</li> </ul>  |
| Solid State Flash Storage         | <ul style="list-style-type: none"> <li>■ USB 2.0 Flash Storage (256 MB to 8 GB)               <ul style="list-style-type: none"> <li>● Minimum 128 MB Standard</li> </ul> </li> </ul>                   |
| Volatile Memory                   | <ul style="list-style-type: none"> <li>■ Up to 1GB DDR SDRAM (<i>Single DIMM Socket</i>)               <ul style="list-style-type: none"> <li>● 256 MB DDR333 DIMM Standard</li> </ul> </li> </ul>      |
| Removable Flash Memory            | <ul style="list-style-type: none"> <li>■ Compact Flash – Standard 50 pin Type 1 (256 MB to 16 GB)               <ul style="list-style-type: none"> <li>● Minimum 128 MB Standard</li> </ul> </li> </ul> |
| Networking                        | <ul style="list-style-type: none"> <li>■ 10/100/1000 BaseT on board</li> </ul>  |
| Display                           | <ul style="list-style-type: none"> <li>■ 12.1" TFT Active High Bright LCD               <ul style="list-style-type: none"> <li>● 800 x 600 SVGA resolution</li> </ul> </li> </ul>                       |
| Touchscreen                       | <ul style="list-style-type: none"> <li>■ 5-Wire Resistive</li> </ul>  |
| Power Supply                      | <ul style="list-style-type: none"> <li>■ Internal, Universal Input / Auto-Switching</li> </ul>  |
| Integrated Magnetic Stripe Reader | <ul style="list-style-type: none"> <li>■ 3 Track RS232 Interface (<i>internal</i>)</li> </ul>   |
| Audio                             | <ul style="list-style-type: none"> <li>■ Internal PC beeper</li> </ul>  |
| Cash Drawer Ports                 | <ul style="list-style-type: none"> <li>■ 2 - MICROS Cash Drawer Ports 12/24Volt</li> </ul>  |
| Serial Port                       | <ul style="list-style-type: none"> <li>■ 1 - 9 pin RS-232 serial port</li> </ul>  |
| IDN Port                          | <ul style="list-style-type: none"> <li>■ 2 - RJ45 RS422/RS485/RS232 switchable ports – Labeled "A" &amp; "B"</li> </ul>   |
| Customer Display Ports            | <ul style="list-style-type: none"> <li>■ 2 - 1 External 4 pin mini-DIN connector for Pole Display,<br/>1 Internal 6 pin header for Integrated Customer Display</li> </ul>                               |
| USB Ports                         | <ul style="list-style-type: none"> <li>■ 6 – 4 External USB V2.0, 2 Internal USB 2.0 headers for Flash Drive &amp; Touch Screen</li> </ul>  |
| Dimensions                        | <ul style="list-style-type: none"> <li>■ 13.7" W x 11.7" D x 5.4" T</li> </ul>  |
| Weight                            | <ul style="list-style-type: none"> <li>■ 7.75 lb (3.5 kg) / Shipping 11 lb (5 kg)</li> </ul>  |
| Enclosure                         | <ul style="list-style-type: none"> <li>■ Rugged PC-ABS plastic blend, spill resistant enclosure, (<i>MICROS Grey</i>)<br/>Passive cooling (<i>No fans</i>)</li> </ul>                                   |
| Operating Temp                    | <ul style="list-style-type: none"> <li>■ 0° C to 45° C (32° to 113° F)</li> </ul>   |
| Certifications                    | <ul style="list-style-type: none"> <li>■ FCC Class A, UL, CE, TUV, CCC</li> </ul>   |





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