

**General Comparison: Windows Embedded Standard 2009, Windows Embedded Standard 7 WS7E and Windows Embedded Standard 7 WS7P**

|                                       | Windows Embedded Standard 2009   | Windows Embedded Standard 7 WS7E   | Windows Embedded Standard 7 WS7P   |
|---------------------------------------|--|--|--|
| Key Windows 7 Components (in-the-box) | <p>Internet Explorer 7</p> <p>Windows Media Player 11</p> <p>Remote Desktop Protocol 6.1</p> <p>.NET Framework 3.0</p> <p><i>Later releases of IE, WMP, RDP and .NET available on Embedded Communications Extranet (ECE)/ Microsoft OEM Online (MOO)</i></p> | <p>Internet Explorer 8</p> <p>Windows Media Player 12</p> <p>Remote Desktop Protocol 7.0</p> <p>.NET Framework 3.5 SP1</p>   | <p>Internet Explorer 8</p> <p>Windows Media Player 12</p> <p>Remote Desktop Protocol 7.0</p> <p>.NET Framework 3.5 SP1</p>   |
| Processor and Hardware Support        | <p><b>32-bit (x86)</b></p> <p>Minimum 126MB storage and 256MB RAM</p>  | <p><b>32-bit (x86) and 64-bit (x64)</b></p> <p>Minimum 1GB storage and 512MB RAM</p>   | <p><b>32-bit (x86) and 64-bit (x64)</b></p> <p>Minimum 1GB storage and 512MB RAM</p>   |
| Image Build Tools                     | <p>Embedded Studio Toolkit:</p> <p>Target Designer</p> <p>Component Designer</p> <p>DB Manager</p> <p>Target Analyzer</p> <p>SDI support</p>   | <p>Windows Embedded Studio:</p> <p>Image Builder Wizard</p> <p>Image Configuration Editor</p> <p>Target Analyzer</p> <p>Windows 7 WIM support</p> <p>Search</p> <p>Better performance</p> <p>Easier third-party software and driver integration</p> <p>XML image configuration</p> | <p>Windows Embedded Studio:</p> <p>Image Builder Wizard</p> <p>Image Configuration Editor</p> <p>Target Analyzer</p> <p>Windows 7 WIM support</p> <p>Search</p> <p>Better performance</p> <p>Easier third-party software and driver integration</p> <p>XML image configuration</p> |
| OS Building Blocks                    | <p>OS components ~1000</p> <p>Driver components ~9000</p>  | <p>OS feature sets ~150</p> <p>Driver packages ~500</p> <p>Embedded Core</p>   | <p>OS feature sets ~150</p> <p>Driver packages ~500</p> <p>Embedded Core</p>   |
| Image Build Model                     | <p>Image is configured and assembled on developer machine</p>  | <p>Image configured on device or on developer machine</p>  | <p>Image configured on device or on developer machine</p>  |

|                             |  |   |   |
|-----------------------------|--|---|---|
|                             | Image is deployed to device<br><br>Adding features requires an image refresh<br><br>Component database and repository                                | Image is assembled on the device<br><br>Features can be added post-build directly to device<br><br>Distribution share to hold files and packages  | Image is assembled on the device<br><br>Features can be added post-build directly to device<br><br>Distribution share to hold files and packages  |
| OS Image Footprint          | Minimum image size > 40 MB   | Minimum image size ~500MB   | Minimum image size ~500MB   |
| Deployment Methods          | PXE Boot, Remote installation<br><br>Windows Pre-installation Environment (WinPE) 1.0<br><br>CD/DVD boot & USB Boot<br><br>Remote Boot               | Windows Deployment Servicing (WDS)<br><br>WinPE 3.1 or latest<br><br>USB Boot   | Windows Deployment Servicing (WDS)<br><br>WinPE 3.1 or latest<br><br>USB Boot   |
| Servicing                   | OEM Servicing<br><br>Device Manual Servicing   | OEM Servicing<br><br>Device Manual Servicing<br><br>Device Automatic Servicing (Windows Update)   | OEM Servicing<br><br>Device Manual Servicing<br><br>Device Automatic Servicing (Windows Update)   |
| Embedded Enabling Features  | Enhanced Write Filter, File-Based Write Filter, Registry Filter<br><br>CD/DVD boot & USB Boot<br><br>Custom shell support<br><br>Device Update Agent | Enhanced Write Filter, File-Based Write Filter, Registry Filter<br><br>USB Boot<br><br>Improved custom shell support<br><br>OEM branding experience<br><br>Notification & Popup suppression | Enhanced Write Filter, File-Based Write Filter, Registry Filter<br><br>USB Boot<br><br>Improved custom shell support<br><br>OEM branding experience<br><br>Notification & Popup suppression |
| Key Distinguishing Features |  | Advanced power management<br><br>Fast boot  | Advanced power management<br><br>Fast boot  |

|   |  |   |  |
|---|--|---|--|
|   |  | Aero glass & Aero background  | Aero glass & Aero background<br><b>Windows Touch (Multi-touch)</b>   |
|   |  | Direct boot from VHD  | Direct boot from VHD   |
| Localization and Language Packs         | OS image<br><br>Documentation (localized into a subset of languages) | OS image (partial)<br><br>Documentation<br><br>Language-neutral design separates localized resources completely   | OS image (partial)<br><br>Documentation<br><br>Language-neutral design separates localized resources completely  |
| Activation                              | Not required   | Not required  | Note required  |
| Enterprise Connectivity                 |  | Full certified IPv6 support   | Full certified IPv6 support  |
| Advanced Remote Connectivity            |  |   | <b>DirectAccess</b><br><br><b>BranchCache</b>  |
| Advanced Data Security                  |  |   | <b>Bitlocker &amp; Bitlocker to Go</b><br><br><b>Applocker</b>   |
| High-end device support                 |  | 64-bit CPU support  | 64-bit CPU support   |
| Consumer Features                       |  |   | <b>HomeGroup</b><br><b>Windows Media Center</b><br><b>Windows Sideshow</b><br><b>Remote Assistance</b><br><b>Anti-Malware</b><br><b>PhotoViewer</b><br><b>Parental Control</b> |
| Customer Connection to the Product Team | Links to team blogs and forums                                       | Support for Software Quality Metrics (SQM) in developer tools<br><br>Links to forums, MSDN and product team blogs | Support for Software Quality Metrics (SQM) in developer tools<br><br>Links to forums, MSDN and product team blogs  |