



Windows® XP Embedded

Product Features

Componentized version of Microsoft Windows XP Professional

- Real-time performance (with third-party add-ins)

Scalable footprint

- 12,000 components available
- 40 MB at smallest

x86 processor architecture

- Supports multi-core processors

Delivering the power of a componentized form of the Windows operating system with powerful development tools for developing a broad range of devices

Windows® Embedded can help you turn your vision and ingenuity into superior business results by offering a great combination of the creative tools and technology you need, along with the support and resources Microsoft® and its partners can provide.

With Windows XP Embedded you have the power of a componentized form of Windows XP Professional. Windows XPe is designed to help you reduce development time and costs due to its compatibility with commodity PC hardware, applications, drivers, and services; in addition to familiar development tools like Microsoft® Visual Studio® 2005.

- Hibernate Once/Resume Many (HORM) for "Instant On" Experience
- System Cloning Tool Streamlines Manufacturing Process
- Device Update Agent (DUA) to Service a Run-Time Image Remotely

Try Before You Buy

Start building and testing with the evaluation version of Windows XP Embedded for 120 days before making a purchasing decision. To download a trial version or order by mail, visit www.microsoft.com/windowseembedded/eval/trial.mspx.

Windows XPe Embedded

Enabling Features

Windows XP Embedded includes many specific embedded enabling features that help optimize the operating system for embedded devices. Some of these include:

- Enhanced Write Filter (EWF) to protect Disc Volumes
- Remote Boot Service to Boot and Configure Devices Over a Network



“To really be able to get it right in this industry, you have to be able to rapidly prototype, test, make changes and deploy the system. With Windows XP Embedded we can do it at least twice as fast.”

— Lloyd Spencer
CEO
CoroWare

Development Environment

Operating System Development Tools

Designed to help you get to market faster. Windows Embedded Studio for Windows XP Embedded streamlines the end-to-end development process and helps you rapidly configure, build and deploy smart devices with rich applications.

- **Target Analyzer.** Automates hardware-specific data to produce runtime images tailored to your target hardware.
- **Target Designer.** Lets you build, develop, and customize embedded runtime images, now with the ability to save the configuration into XML.
- **Component Designer.** Supplies an environment for defining custom components to use in embedded runtime images.
- **Component Database.** Stores component-level information during embedded runtime image development.
- **Component Database Manager.** Manages component-level information, including the component database and underlying repositories.

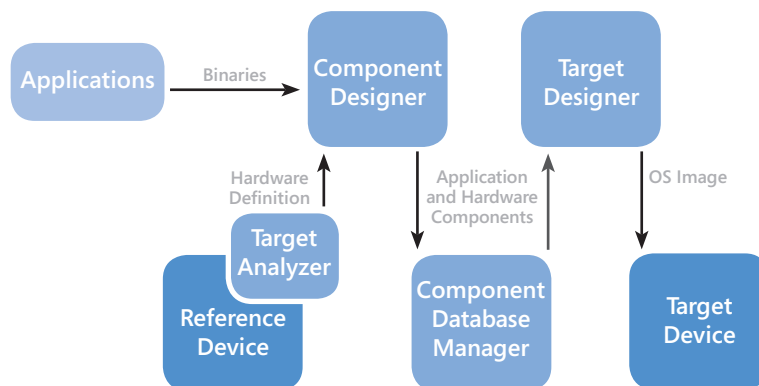
- **Command Line Tool (with FP2007).**

Allows you to easily automate the end-to-end build process, search and manipulate the component database, investigate component relationships and dependency chains, import custom components, and delete components from the database.

Application Development Tools

Visual Studio helps you build powerful embedded applications with the same, standards-based, tools used for mainstream application development worldwide. Multiple programming languages supported including Microsoft Visual Basic, Visual C++, Visual J++, and Visual FoxPro. Utilize standard hardware and run standard off-the-shelf Win32 applications, drivers, or services with little or no porting required.

Windows XP Embedded Development Tool Suite



Windows XP Embedded Studio enables you to develop and manipulate the components you want in your run-time image, and to build and deploy it to your device.



Middleware

Microsoft provides operating system building blocks for an array of devices to meet the requirements of vertical markets. This lets you focus your development resources on adding product innovation, differentiation and value.

Windows XP Embedded includes device templates including advanced set top box, home gateway, information appliance, kiosk/gaming console, network attached storage, retail POS, and Win-based terminal.

Compatibility with Other Microsoft Technologies

Easily interoperate with many common industry standards plus numerous Microsoft desktop and server technologies.

- Systems Management Server (SMS)
- Microsoft Operations Manager (MOM)
- Microsoft SQL Server/SQL Express
- Microsoft .NET Framework 2.0
- Windows Media Player 10

World Class Support

The Microsoft Support Lifecycle Policy guarantees that Microsoft provides five years of mainstream support and five years of extended support for Windows Embedded products after release, for a total of 10 years of support for your embedded device.

- Developer Support: **1 (800) 936-5800**
- Online Support:
<http://support.microsoft.com/>

Serviceability and Manageability

Choose from a number of ways to deploy and service your image, such as SMS, MOM, Device Update Agent and Software Update Service.

Business Model of Shared Success

Windows Embedded licensing allows you to make a low up-front investment in operating system development, with the majority expenditure occurring after your device is shipped. Free evaluation software lets you develop your OS image in the evaluation phase. You pay for tools and runtime licenses only when you ship your device using per-unit licenses with tiered volume discounts. This model can help you predict your investment and reduces break-even volume.

- To license Windows XP Embedded contact a Windows Embedded Authorized Distributor at www.microsoft.com/windows/embedded/license.mspx

The Windows

Embedded Family

of products

provides the

leading solutions

to help you

rapidly develop

powerful, reliable,

and intelligent

devices. Whether

you're learning,

building, or

shipping—

we're here to

support you.



Windows® XP Embedded

Feature Pack 2007

Smaller Footprint

- Re-factored Windows Internet Explorer® 6
- Increased componentization and component size reduction
- Reduced interdependencies

New Embedded Enabling Features

- USB 2.0 boot
- File Based Write Filter (FBWF)

More Compatibility with Microsoft® Desktop and Server Technologies

Enhanced Windows Embedded Studio® Tools

Features	Benefits
Componentized version of Windows XP Professional	Choose drivers, services, and applications to include in your final embedded operating system image to help reduce OS size
Pre-existing design templates	Focus development resources on differentiating your product
Windows XP Professional Win32 APIs	Use standard hardware and run standard off-the-shelf Win32 applications, drivers, or services with little or no porting required
Robust serviceability and manageability	Provide enterprise-class manageability, and customer-level device protection with security updates
Windows XP Professional security features, including built-in firewalls	Easily integrate robust security features into your device
Familiar application development tools	Familiar to more than 6 million developers
Integrated board support	Reduce development time
IP Indemnification	<ul style="list-style-type: none"> • Help reduce litigation risk for device makers • Uncapped monetary intellectual property indemnification by Microsoft

Windows® XP Embedded Service Pack 2 Feature Pack 2007

Features	Benefits
Footprint reduction	Helps achieve a more optimal embedded image by using only the components necessary and reduce BOM costs
More embedded enabling features	Extends the underlying functionality and optimizes the performance. Improved servicing and diagnostics, and the ability to selectively protect individual files and folders
Support for .Net Framework V2.0 and SQL Express, plus a new command line scripting tool	Increase productivity and reduce time-to-market
Continued improvements of integration with Microsoft desktop and server technologies	Enhance the ability to innovate and create differentiated devices for a broad range of device categories with a rapid time-to-market and reduced development costs

Online Resources

- The Windows Embedded Developer Center, supported by the Microsoft Developer Network (MSDN), provides detailed technical information, training, and community support: www.msdn.com/embedded.
- The Windows Embedded Partner Program includes a worldwide network of resources available during every step of your device project www.WindowsEmbeddedPartners.com.

- For general product information, to locate a distributor and customer success stories, please visit www.microsoft.com/windows/embedded.

Windows Powered Logo

The Windows Powered Logo Program is designed specifically for use with products that are built and licensed with Windows Embedded operating system technologies.