Windows Embedded Standard

Embedded Operation System

Features

- Componentized operating system lets you create a custom operating system image to deliver the necessary functionality for the device
- Provide device users with a unique and powerful branded experience
- Deliver an immersive, natural, and multitouch user experience
- Reduce custom development and help secure your device from unintended interactions with advanced lockdown features
- Run your existing Windows line-of-business applications or create a new experience with Win¬dows apps
- Improve mobility and access with new power management and wireless technologies
- Use the enhanced security technologies to protect your device, data, and network Access IT systems and the cloud to keep devices connected to the information that matters most
- Manage the device alongside PCs and servers with Microsoft System Center
- Improve time to market with new operating system development and customization tools

Introduction

Choose Windows Embedded Standard to enable advanced enterprise devices to run thousands of existing Windows applications and drivers. Experience a rich set of componentized embedded OS technologies. Specific embedded enabling features allow you to tailor the OS to your device. With Windows Embedded Standard, you can optimize the size of the OS footprint on your device because you can select just the drivers, services, and applications you need.

Feature Details

Increased Flexibility to Build Special Purpose Devices

- Flexibility to add features, drivers and language packs either directly to the device or to the image on the developer machine.
- Hardware flexibility with support for 64 bit (x64) in addition to the 32 bit (x86) to build high-end embedded systems

Prepackaged Features

Reduce development costs using embedded features and simple to use tools

Experience Touch

Windows Embedded 8 devices enable a more natural user experience through fast, fluid, and responsive controls, supporting multi-touch capabilities

Create Unique Operating System Configurations

Benefit from a module-based approach to device operating system creation.

- Drive efficiencies by creating a custom image with only necessary functionality included
- Module Designer simplifies custom operating system design by integrating third-party modules

Apply Custom Branding

Present your unique brand experience to users by delivering a custom experience from startup through shut-down.

Harness Connectivity

Integrate a multitude of connectivity options to keep devices portable and connected to networks and business critical data.

- New and improved connectivity options include NFC, USB 3.0, Bluetooth LE, and Wi-Fi
- Connected Standby uses very low power when in an idle state to help a device remain connected to the Internet, helping to ensure applications are always current

Enjoy Improved Power Management

- Smart power management extends the usable life of the embedded device
- Developers can build more energy-efficient designs

Rest Assured with Technologies You can Rely On

Windows Embedded standard is built with security, management, availability, and reliability in mind.

- BitLocker technologies help ensure data protection and hard drive encryption
- Trusted Boot and Measured Boot add early malware protection and help guarantee that only the verified operating system image can boot

Stay Protected with Windows Embedded Lockdown

Windows Embedded Lockdown features help original equipment manufacturers (OEMs) control industrial device configuration and user experience.

- Protect from application and operating system changes by writing data to the abstraction layer using write filters
- Keyboard Filter maintains a consistent user experience by blocking special key combinations on both physical and virtual keyboards
- Suppress Windows system dialogs with the Dialog Filter
- Help ensure consistent application experience with the Gesture Filter
- Hibernate Once/Resume Many feature helps ensure that the devices restart the same way every time
- Application Launcher allows devices to boot directly into a line-of-business application and allows the users to access the desired device experience directly
- Easily manage and configure lockdown technologies with an improved Embedded Lockdown Manager

Specifications and Versions

Windows Embedded 8 Standard

Windows Embedded 8 Standard is a modular operating system that provides enterprises and device manufacturers the freedom to choose which capabilities will be part of their industry de¬vices and intelligent system solutions. It provides device makers with a flexible platform to create unique, best-in-class products that delight customers and stand out from the competition. The latest operating system innovations help shorten the device development cycle with specialized technologies designed for industrial devices. These devices are optimized for the intelligent systems that have the ability to transform data into lasting competitive advantage.

Windows Embedded Standard 7

Windows® Embedded Standard 7 delivers the power, familiarity, and reliability of the Windows 7 operating system in a componentized form for developers to create advanced commercial and consumer devices running thousands of existing Windows applications and drivers. NEW: Windows Embedded Standard 7 Service Pack 1 includes these technologies; Remote Desktop Protocol, SD Boot, and SKU Compliance Package.

Windows Embedded Standard 2009

Windows Embedded Standard delivers the power, familiarity, and reliability of the Windows operating system in a componentized form for developers to create advanced commercial and consumer devices running thousands of existing Windows applications and drivers.

Windows XP Embedded

The operating system for secure, manageable and innovative embedded devices. Windows XP Embedded delivers the power of Windows XP Professional in a componentized form. Each component includes data that allows you to mix and match with other components and build a customized operating system into a runtime image.

Windows XP Embedded is designed to help you reduce development time and costs due to its compatibility with commodity PC hardware, applications, drivers, and services.

Ordering information

- **968TWE8STD** Windows Embedded 8 Standard
- **968TWES7PO** Windows Embedded Standard 7 P
- **968TWES7ES** Windows Embedded Standard 7 E
- **968TXPESTD** Windows Embedded Standard 2009
- **968TXPEEMB** Windows XP Embedded