WINDOWS 11 IoT Enterprise LTSC 2024

Building on decades of technology leadership Windows IoT is a lasting, stable foundation designed to support a vast range of use cases and effectively enables data collection, device-to-cloud communication, and AI/ML capabilities, optimized to run on resource constrained IoT and edge devices. Windows IoT also facilitates the seamless transmission of data from edge devices to the cloud, enabling the deployment of generative AI capabilities.

New Windows 11 IoT Enterprise LTSC is for fixed-function, special-purpose devices providing a support lifecycle of 10 years. Windows 11 IoT Enterprise LTSC delivers the same compatibility, security, and management capabilities of the Windows operating system that powers more than 1.4 billion[1] devices worldwide.

What's new in Windows 11 IoT Enterprise LTSC?

- Enhanced security, streamlined deployment and management, advanced edge computing capabilities, improved performance, and compatibility.
- New capabilities to customize the operating system and lockdown the device experience for public-facing or employee-facing scenarios.
- Footprint optimization create an ideal platform for more device types and support for resource constrained devices.

Enhanced Security and Compliance

With increasing threats and new cybersecurity regulations across the globe, security is increasingly important for the IoT ecosystem.

- Windows 11 IoT Enterprise LTSC benefits from the latest Windows security investments with **security-by-default.**
- With hardware features such as Trusted Platform Modules (TPM) and Virtualization-Based Security, Windows delivers **security enhancements** such as protecting credentials even against privileged system processes, secure and measured boot to detect and prevent rootkits, and Windows Defender Application Control for limiting execution to only specific signed apps.
- Windows Defender Antivirus as well as **authentication improvements** help ensure protection against malware, zero-day exploits, and unauthorized access.
- The Edge Secured-Core program **enables hardware partners** to certify their devices are secure-by-design and take advantage of Windows industry-leading security capabilities.

Efficient Management, Servicing and Improved Compatibility

Simplified deployment and management are key to maximizing operational efficiency and minimizing downtime. Windows 11 IoT Enterprise LTSC doesn't require changes to existing support processes or new tooling to build, deploy, or keep applications up to date.

- **Windows Update delivery optimization** helps reduce the bandwidth required for quality updates.
- **Seamless integration with Microsoft Intune,** to help streamline device provisioning, configuration, and monitoring.
- **Streamlined development experience with support for x64 applications** without modification on processors, reducing time to market on Arm64 platforms.

Windows 11 IoT Enterprise LTSC empowers organizations to unlock new levels of innovation and intelligence at the edge, driving digital transformation and fueling growth.

Windows IoT – Innovate with confidence on a secure foundation