



Windows 11 – A Modern Upgrade

Introduced in 2021, Windows 11 offers significant improvements over Windows 10. Its redesigned interface, enhanced multitasking, and advanced security features cater to modern computing needs. As part of the upgrade, businesses must choose between Windows 11 Professional or Windows 11 Enterprise LTSC (long-term servicing channel). The former offers the latest features and updates; the latter offers stability and long-term support. While the upgrade to Windows 11 is advantageous, expertise is essential to ensure that your system can support the stringent hardware requirements.

Enhanced Security

Windows 11 offers robust security features, including hardware-based isolation, encryption, and malware prevention, crucial for protecting sensitive data. The new OS also provides improved performance and efficiency, supporting demanding applications and workloads more effectively. Its user-friendly interface and updated tools boost productivity and collaboration among employees.

Key Hardware Security Measures

- **Trusted Platform Module (TPM) 2.0:** A chip providing hardware-based security, safeguarding encryption keys, user credentials, and other sensitive data. TPM verifies the firmware and boot process's authenticity, blocking malicious code.
- **Secure Boot:** Ensures that only software trusted by the original equipment manufacturer (OEM) can boot. This feature protects against rootkit and bootkit infiltration, maintaining system integrity from startup.

Hardware Requirements

- **Processor:** 1 gigahertz (GHz) or faster with at least two cores on a compatible 64-bit processor or System on a Chip (SoC)
- **RAM:** Minimum of 4 GB
- **Storage:** Minimum 64 GB
- **System Firmware:** UEFI, Secure Boot capable
- **TPM:** Version 2.0
- **Graphics Card:** DirectX 12 compatible graphics / WDDM 2.x
- **Display:** Larger than 9 inches with HD resolution (720p)
- **Internet Connection and Microsoft Account:** Required for initial setup



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– Networking Engineer, Manufacturing Industry

Windows 11 Professional vs. Long-Term Servicing Channel (LTSC)

In addition to stringent system requirements needed to support Windows 11, businesses must also weigh the benefits of the latest features and updates against the need for stability and long-term support. Below, our experts have detailed the key differences between Windows 11 Professional and Windows 11 Enterprise LTSC to help you decide which system best fits your business needs:

Windows 11 Professional

- Designed for consumers and businesses that benefit from the latest features and updates
- Receives feature updates twice a year
- Provides the newest functionalities, security improvements, and enhancements
- Frequent updates may introduce instability or require adjustments

Windows 11 Enterprise LTSC

- Tailored for enterprise environments where stability and long-term support are critical.
- Receives feature updates every two to three years, focusing on security and critical fixes.
- Ideal for industries like healthcare, manufacturing, and financial services.
- Minimizes disruptions caused by frequent updates.
- Lacks some consumer-focused features found in standard Windows 11

Windows 11 Professional is best for businesses wanting the latest features and enhancements, whereas Windows 11 LTSC is best for mission-critical systems requiring stability and minimal disruptions, such as medical equipment, ATMs, and industrial control systems.

Timing and Challenges

Microsoft will only support Windows 10 systems until October 2025, giving businesses limited time to plan and execute upgrades. Our experts at Industrial Computers Inc. can advise you on the best approach for updating to Windows 11; prepare for potential challenges such as hardware requirements, cost implications, downtime expectations for the transition, software compatibility, and integration with existing systems such as networks and custom applications; and help facilitate a smooth and efficient transition.

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For questions or to schedule a consultation with our ICI experts, contact us at 800-992-4007, or sales@eindustrialcomputers.com.

**Be prepared for your Windows 11 update.
Contact our team of experts today!**

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