

x64

We've raised

the speed limit.

Built for blazing speed, Microsoft Windows XP Professional x64 Edition and Microsoft Windows Server 2003 x64 Editions paired with AMD64 processors take your customers' high-performance computing to a new level. For those pushing the limits of 32-bit processing, the road ahead just got clearer.

Introducing Microsoft® Windows® XP Professional x64 Edition and Microsoft Windows Server™ 2003 x64 Editions. Developed in close collaboration with AMD, these operating systems and AMD64 processors open the road for high-speed applications without sacrificing features, stability, or security.

Windows x64 operating systems on AMD64 processors: business just got faster.

In 1999, AMD introduced the AMD64 instruction set, laying the groundwork for the first 64-bit processors. Today, Microsoft and AMD have collaborated to bring the x86 PC industry to 64-bit computing, delivering a computing platform that is flexible, scalable, and powerful. Windows x64 operating systems were developed to leverage key AMD technologies, including Direct Connect Architecture, 64-bit technology, and dual core processors. The road to a 64-bit solution begins with Microsoft and AMD.

Windows x64 operating systems and AMD64 processors give you the flexibility you need to deliver solutions.

- Windows x64 operating systems leverage key AMD technologies, including Direct Connect Architecture, 64-bit technology, and dual core processors.
- Complete compatibility with both 32-bit and 64-bit Windows.
- The flexibility to migrate to 64-bit applications based on customer needs.

Windows x64 operating systems and AMD64 processors deliver leading-edge platform features and performance.

- Ability to address large memory spaces beyond the 32-bit, 4-GB limit.
- Enhanced Virus Protection built into Windows x64 operating systems and AMD64 processors.
- 64-bit performance for leading-edge and high-performance applications.

"We were amazed by the performance increases that we observed in running our existing 32-bit Windows code under Windows x64 with the AMD Opteron™ processor."

— Robert Wenig, Tealeaf Technologies

"Performance aside, the reason we are now using AMD servers is for the long-term viability and growth of the 64-bit platform. AMD really has it right, being able to allow the flexibility of using 32-bit everything on these servers. Once the 64-bit version of Windows is mainstream we'll be able to utilize this software natively on the AMD Opteron processor-based servers. Congrats to AMD for making the competition play catch-up in the server market!"

— Jason Campagna, Harrislogic, Inc

Learn more about 64-bit computing from Microsoft and AMD at www.microsoft.com/x64 and www.amd.com/x64.

Microsoft

AMD

x64

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Enable your customers to experience the performance of 64-bit computing.

Your customers demand results. AMD64 technology partnered with Windows XP Professional x64 Edition and Windows Server 2003 x64 Editions delivers extraordinary performance for extraordinary workloads.

Windows XP Professional x64 Edition running on AMD Athlon™ 64 processors

Windows XP Professional x64 Edition offers the power to work with large datasets and other memory- and computation-intensive files in a feature-rich environment.

- **Enhanced security:** Enjoy the powerful security features of Windows XP, plus Enhanced Virus Protection built into AMD processors.
- **Handle large files with ease:** Work with large amounts of data such as 3-D models, animations, or CAD projects easily and quickly.
- **Maximum performance:** Windows XP Professional x64 Edition is optimized for AMD Athlon™ 64 processors' HyperTransport™ technology, reducing bottlenecks and improving overall system performance.
- **Total application flexibility:** Run your 32-bit applications at full speed on the same machine as your next-generation 64-bit high-performance applications.
- **Same great user experience:** Enjoy all the same features as Windows XP Professional, including Automatic Updates, System Restore, and Windows Security Center.
- **Cool'n'Quiet™ technology:** Conserves power while enabling a whisper-quiet, high-performance computing environment.



Windows Server 2003 x64 Editions running on AMD Opteron™ processors

Windows Server 2003 x64 Editions are reliable, cost-effective solutions for businesses with memory-intensive or complex IT needs.

- **Low total cost of ownership:** A single power-efficient, highly scalable 64-bit architecture can replace multiple servers and simplify IT administration.
- **Reliable development platform:** Robust Windows Server 2003 code base and AMD Direct Connect Architecture provide exceptional stability and durability.
- **Superior data processing speeds:** Optimization for AMD Opteron processors take advantage of reduced latencies during memory access for increased performance and productivity.
- **Improved scalability:** Add or remove 32- and 64-bit applications as needed. Dual core processing enables easy migration from single to dual core processors.
- **Simplified administration and development:** Familiar Windows environment eliminates need for retraining and allows organizations to standardize operating systems, saving substantial management costs.



Encourage your customers to learn more about Windows XP Professional x64 Edition and Windows Server 2003 x64 Editions running on AMD64 processors. Visit www.microsoft.com/x64 and www.amd.com/x64 for more information about 64-bit computing.