

Windows Processor Requirements

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If you are a customer seeking to determine Windows 11 eligibility for your device, please use [PC Health Check](#) . For Windows support life cycles please see [Windows 11 Home and Pro - Microsoft Lifecycle](#).

This specification details the processors that Original Equipment Manufacturers (OEM) can use to manufacture new PCs that include Windows Products (including Custom Images). Updates to this specification may be released in the future as requirements change.

For each listed edition, OEMs must use only the processors listed, as specified in the tables below. The requirements below apply whenever the edition below is pre-installed or provided on external media, including as downgrade or down edition software.

For clarity, OEMs must also meet all processor and other requirements specified in Minimum Hardware Requirements for Windows, available at [Windows minimum hardware requirements](#).

If after the inclusion of a processor series in this specification ("Listed Processor"), a processor becomes commercially available that uses the same naming convention or identifier as a Listed Processor but has additional or different features or functionality ("New Processor"), OEMs must not use New Processor for Customer Systems without Microsoft's prior written permission. If an OEM believes a processor has been omitted from this list, please contact your Microsoft OEM or ODM Account Manager.

Some product editions or edition/processor configurations listed below may have no or limited support. Information on support is available at [Microsoft Support Policy](#) and [Microsoft Lifecycle FAQ](#) . Customers who have specific hardware support questions should contact the OEM of their PC.

Changes to the processors listed do not indicate or impact a customer's existing Windows support and are intended for OEMs to determine processors which may be used in new Windows devices.

Windows Client Edition Processors

 Expand table

Windows Edition	AMD Processors	Intel Processors	Qualcomm Processors
Windows 7 and earlier editions	Supported AMD Processors	Supported Intel Processors	N/A
Windows 8.1	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 Enterprise LTSC 1507	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 1511	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 1607	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 Enterprise LTSC 1607	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 1703	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 1709	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 1803	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 1809	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 Enterprise LTSC 1809	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 1903	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 1909	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 2004	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 20H2	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors

Windows 10 21H1	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 21H2	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 10 Enterprise LTSC 2021	Supported AMD Processors	Supported Intel Processors	N/A
Windows 10 22H2	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 11 version 21H2	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors
Windows 11 version 22H2 & 23H2	Supported AMD Processors	Supported Intel Processors	Supported Qualcomm Processors

Windows IoT Processors

This table provides reference to additional processor support and hardware requirements for Windows IoT Enterprise editions and Windows 10 IoT Core.

 Expand table

Windows IoT Edition	Supported Processors
Windows 10 IoT Enterprise LTSC	See Windows 10 IoT Enterprise LTSC supported processors
Windows 11 IoT Enterprise	See Windows 11 IoT Enterprise supported processors
Windows 10 IoT Enterprise	See Windows 10 IoT Enterprise supported processors
Windows 10 IoT Core	See Windows 10 IoT Core supported processors

Windows Server Processors

 Expand table

Windows Edition	Intel Processors	AMD Processors	Hygon Processors ^[7]
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Windows Server 2012 R2 ^[4]	Up through the following 7th Generation Intel Processors (Intel Core i3-7xxx/Celeron/Pentium; Xeon E3 v6); Xeon SP 32xx, 42xx, 52xx, 62xx, and 82xx; Xeon D 15xx; and Atom C33xx	Up through the following AMD 7th generation processors (AMD A-Series Ax-9xxx & E-Series Ex-9xxx & FX-9xxx), AMD Ryzen Family, AMD EPYC 7xx1, AMD EPYC 7xx2, and AMD EPYC 7xx3	N/A
Windows Server 2016 ^[5]	Up through the following 9th Generation Intel Processors (Core i3-9xxx, Pentium G5xxx, Celeron G49xx); Xeon E22xx; Xeon SP 32xx, 43xx, 53xx, 63xx, and 83xx; Xeon D 21xx; and Atom C33xx	Up through the following AMD 7th generation processors (AMD A-Series Ax-9xxx & E-Series Ex-9xxx & FX-9xxx), AMD Ryzen Family, AMD EPYC 7xx1, AMD EPYC 7xx2, and AMD EPYC 7xx3	N/A
Windows Server 2019 ^[6]	Up through the following 13th Generation Intel Processors (Core i3-13xxx, Pentium G5xxx, G7400 and G7400T, Celeron G49xx); Xeon E23xx; First through Fifth Gen Xeon SP Processors (x1xx, x2xx, x3xx, x4xx, x5xx); Xeon E 21xx through 24xx; Xeon D 15xx, 17xx, 21xx, and 27xx; and Atom C33xx	Up through the following AMD 7th generation processors (AMD A-Series Ax-9xxx & E-Series Ex-9xxx & FX-9xxx), AMD Ryzen Family, AMD EPYC 7xx1, AMD EPYC 7xx2, AMD EPYC 7xx3, AMD EPYC 8xx4, AMD EPYC 9xx4, and AMD EPYC 9xx5	Hygon C86 7xxx
Windows Server 2022	Up through the following 13th Generation Intel Processors (Core i3-13xxx, Pentium G5xxx, G7400 and G7400T, Celeron G49xx); First through Fifth Gen Xeon SP processors (x1xx, x2xx, x3xx, x4xx, x5xx); Xeon 6 SP processors (67xxE); Xeon E 23xx and 24xx; Xeon D 17xx, 21xx, and 27xx; and Atom C33xx	Up through the following AMD 7th generation processors (AMD A-Series Ax-9xxx & E-Series Ex-9xxx & FX-9xxx), AMD Ryzen Family, AMD EPYC 7xx1, AMD EPYC 7xx2, AMD EPYC 7xx3, AMD EPYC 4xx4, AMD EPYC 8xx4, AMD EPYC 9xx4, and AMD EPYC 9xx5	N/A
Windows Server 2025	Second through Fifth Gen Xeon SP processors (x2xx, x3xx, x4xx, x5xx); Xeon 6 SP Processors (67xxE); Xeon E 23xx and 24xx; Xeon D 17xx, 18xx, 21xx, 27xx, 28xx; Pentium G7400 and G7400T	AMD EPYC 7xx2, AMD EPYC 7xx3, AMD EPYC 4xx4, AMD EPYC 8xx4, AMD EPYC 9xx4, and AMD EPYC 9xx5	N/A

[4] The processor list for Windows Server 2012 R2 is final. New system submissions are no longer accepted for certification.

[5] The processor list for Windows Server 2016 is final. New system submissions are no longer accepted for certification.

[6] The processor list for Windows Server 2019 is final. New system submissions are no longer accepted for certification.

[7] China Market Only

NOTE: The list of supported processors above does not in itself determine Microsoft support for Windows Server. The listing is a prerequisite for system certification. Only systems based on the above approved processors can be certified for Windows Server. Unless otherwise noted, Microsoft will continue to evaluate the processor list for a given OS release and update the list as new appropriate processors are available in market.

Additional Resources

[Windows Server support and installation instructions for the AMD Rome family of processors](#)

[Windows Server 2016 System Requirements](#)

[Comparison of Standard and Datacenter editions of Windows Server 2016](#)

[Windows 10 system requirements](#)

[Download the Windows Server 2016 licensing datasheet](#)