

AMD Ryzen™ 7 5700X

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GENERAL  
SPECIFICATIONS

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GRAPHICS  
CAPABILITIES

PRODUCT IDS

KEY FEATURES

General Specifications

|                        |                                     |
|------------------------|-------------------------------------|
| Platform:              | Desktop                             |
| Market Segment:        | Enthusiast Desktop                  |
| Product Family:        | AMD Ryzen™ Processors               |
| Product Line:          | AMD Ryzen™ 7 Desktop Processors     |
| Consumer Use:          | Yes                                 |
| Regional Availability: | Global, China, NA, EMEA, APJ, LATAM |
| Former Codename:       | "Vermeer"                           |
| Architecture:          | "Zen 3"                             |
| # of CPU Cores:        | 8                                   |
| Multithreading (SMT):  | Yes                                 |
| # of Threads:          | 16                                  |
| Max. Boost Clock:      | Up to 4.6GHz                        |
| Base Clock:            | 3.4GHz                              |
| L1 Cache:              | 512KB                               |
| L2 Cache:              | 4MB                                 |
| L3 Cache:              | 32MB                                |
| Default TDP:           | 65W                                 |

Processor Technology for CPU Cores: TSMC 7nm FinFET

|                                            |                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor Technology for I/O Die:</b>   | 12nm (Globalfoundries)                                                                                                                                             |
| <b>CPU Compute Die (CCD) Size:</b>         | 74mm <sup>2</sup>                                                                                                                                                  |
| <b>I/O Die (IOD) Size:</b>                 | 125mm <sup>2</sup>                                                                                                                                                 |
| <b>Package Die Count:</b>                  | 2                                                                                                                                                                  |
| <b>Unlocked for Overclocking ⓘ:</b>        | Yes                                                                                                                                                                |
| <b>CPU Socket:</b>                         | AM4                                                                                                                                                                |
| <b>Socket Count:</b>                       | 1P                                                                                                                                                                 |
| <b>Supporting Chipsets:</b>                | X570<br>X470<br>X370<br>B550<br>B450<br>B350<br>A520                                                                                                               |
| <b>CPU Boost Technology:</b>               | Precision Boost 2                                                                                                                                                  |
| <b>Instruction Set:</b>                    | x86-64                                                                                                                                                             |
| <b>Supported Extensions:</b>               | AES, AMD-V, AVX, AVX2, FMA3, MMX(+),<br>SHA, SSE, SSE2, SSE3, SSE4.1, SSE4.2,<br>SSE4A, SSSE3, x86-64                                                              |
| <b>Thermal Solution (PIB):</b>             | Not included                                                                                                                                                       |
| <b>Max. Operating Temperature (Tjmax):</b> | 90°C                                                                                                                                                               |
| <b>Launch Date:</b>                        | 4/4/2022                                                                                                                                                           |
| <b>*OS Support:</b>                        | Windows 11 - 64-Bit Edition<br>Windows 10 - 64-Bit Edition<br>RHEL x86 64-Bit<br>Ubuntu x86 64-Bit<br>*Operating System (OS) support will<br>vary by manufacturer. |

## Connectivity

|                                             |     |
|---------------------------------------------|-----|
| <b>USB Type-C® Support:</b>                 | Yes |
| <b>Native USB 3.2 Gen 2 (10Gbps) Ports:</b> | 4   |
| <b>Native USB 3.2 Gen 1 (5Gbps) Ports:</b>  | 0   |

|                                                |                             |           |
|------------------------------------------------|-----------------------------|-----------|
| Native USB 2.0 (480Mbps) Ports:                | 0                           |           |
| Native SATA Ports:                             | 2                           |           |
| PCI Express® Version:                          | PCIe 4.0                    |           |
| Native PCIe® Lanes (Total/Usable):             | 24/20                       |           |
| Additional Usable PCIe Lanes from Motherboard: | AMD X570                    | 16x Gen 4 |
|                                                | AMD X470                    | 2x Gen 3  |
|                                                | AMD X470                    | 8x Gen 2  |
| NVMe Support:                                  | Boot, RAID0, RAID1, RAID10  |           |
| System Memory Type:                            | DDR4                        |           |
| Memory Channels:                               | 2                           |           |
| Max. Memory:                                   | 128GB                       |           |
| System Memory Subtype:                         | UDIMM                       |           |
| System Memory Specification:                   | Up to 3200MHz               |           |
| Max Memory Speed:                              | 2x1R                        | DDR4-3200 |
|                                                | 2x2R                        | DDR4-3200 |
|                                                | 4x1R                        | DDR4-2933 |
|                                                | 4x2R                        | DDR4-2667 |
| ECC Support:                                   | Yes (Requires mobo support) |           |

## Graphics Capabilities

|                      |                                 |
|----------------------|---------------------------------|
| Integrated Graphics: | No                              |
| Graphics Model:      | Discrete Graphics Card Required |

## Product IDs

|                   |                  |
|-------------------|------------------|
| Product ID Boxed: | 100-100000926WOF |
| Product ID Tray:  | 100-000000926    |

## Key Features

|                         |                        |
|-------------------------|------------------------|
| Supported Technologies: | AMD StoreMI Technology |
|-------------------------|------------------------|

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