

General Specifications

|                                    |                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Name                               | AMD Ryzen™ 7 5700X                                                                                              |
| Family                             | Ryzen                                                                                                           |
| Series                             | Ryzen 5000 Series                                                                                               |
| Form Factor                        | Desktops, Boxed Processor                                                                                       |
| Market Segment                     | Enthusiast Desktop                                                                                              |
| Regional Availability              | Global , China , NA , EMEA , APJ , LATAM                                                                        |
| Former Codename                    | Vermeer                                                                                                         |
| Processor Architecture             | Zen 3                                                                                                           |
| # of CPU Cores                     | 8                                                                                                               |
| Multithreading (SMT)               | Yes                                                                                                             |
| # of Threads                       | 16                                                                                                              |
| Max. Boost Clock                   | Up to 4.6 GHz                                                                                                   |
| Base Clock                         | 3.4 GHz                                                                                                         |
| L1 Cache                           | 512 KB                                                                                                          |
| L2 Cache                           | 4 MB                                                                                                            |
| L3 Cache                           | 32 MB                                                                                                           |
| Default TDP                        | 65W                                                                                                             |
| Processor Technology for CPU Cores | TSMC 7nm FinFET                                                                                                 |
| Processor Technology for I/O Die   | 12nm (Globalfoundries)                                                                                          |
| CPU Compute Die (CCD) Size         | 74mm²                                                                                                           |
| I/O Die (IOD) Size                 | 125mm²                                                                                                          |
| Package Die Count                  | 2                                                                                                               |
| Unlocked for Overclocking          | Yes                                                                                                             |
| CPU Socket                         | AM4                                                                                                             |
| Supporting Chipsets                | X570 , X470 , X370 , B550 , B450 , B350 , A520                                                                  |
| CPU Boost Technology               | Precision Boost 2                                                                                               |
| Instruction Set                    | x86-64                                                                                                          |
| Supported Extensions               | AES , AMD-V , AVX , AVX2 , FMA3 , MMX-plus , SHA , SSE , SSE2 , SSE3 , SSE4.1 , SSE4.2 , SSE4A , SSSE3 , x86-64 |
| Thermal Solution (PIB)             | Not Included                                                                                                    |
| Max. Operating Temperature (Tjmax) | 90°C                                                                                                            |
| Launch Date                        | 04/04/2022                                                                                                      |

|             |                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------|
| *OS Support | Windows 11 - 64-Bit Edition , Windows 10 - 64-Bit Edition , RHEL x86 64-Bit , Ubuntu x86 64-Bit |
|-------------|-------------------------------------------------------------------------------------------------|

Connectivity

|                                               |                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------|
| Native USB 3.2 Gen 2 (10Gbps)                 | 4                                                                                                |
| Native USB 3.2 Gen 1 (5Gbps)                  | 0                                                                                                |
| Native USB 2.0 (480Mbps)                      | 0                                                                                                |
| Native SATA Ports                             | 2                                                                                                |
| PCI Express® Version                          | PCIe® 4.0                                                                                        |
| Native PCIe® Lanes (Total/Usable)             | 24 , 20                                                                                          |
| Additional Usable PCIe Lanes from Motherboard | <b>X570</b> 16x Gen 4<br><b>X470</b> 2x Gen 3, 8x Gen 2                                          |
| NVMe Support                                  | Boot , RAID0 , RAID1 , RAID10                                                                    |
| System Memory Type                            | DDR4                                                                                             |
| Memory Channels                               | 2                                                                                                |
| Max. Memory                                   | 128 GB                                                                                           |
| System Memory Subtype                         | UDIMM                                                                                            |
| System Memory Specification                   | Up to 3200 MT/s                                                                                  |
| Max Memory Speed                              | <b>2x1R</b> DDR4-3200<br><b>2x2R</b> DDR4-3200<br><b>4x1R</b> DDR4-2933<br><b>4x2R</b> DDR4-2667 |
| ECC Support                                   | Yes (Requires mobo support)                                                                      |

Graphics Capabilities

|                |                                 |
|----------------|---------------------------------|
| Graphics Model | Discrete Graphics Card Required |
|----------------|---------------------------------|

Product IDs

|                  |                                       |
|------------------|---------------------------------------|
| Product ID Boxed | 100-100000926WOF* , 100-100000926WOZ* |
| Product ID Tray  | 100-000000926                         |
| Product ID MPK   | 100-100000926NPK* , 100-100000926KPK* |

Key Features

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Supported Technologies | AMD StoreMI Technology , AMD Ryzen™ VR-Ready Premium |
|------------------------|------------------------------------------------------|