

CONNECTIVITY

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KEY FEATURES

AMD Ryzen™ 5 4600G

General Specifications

Platform:	Desktop
Product Family:	AMD Ryzen™ Processors
Product Line:	AMD Ryzen™ 5 4000 G-Series Desktop Processors with Radeon™ Graphics
Former Codename:	"Renoir"
Architecture:	"Zen 2"
# of CPU Cores:	6
Multithreading (SMT):	Yes
# of Threads:	12
Max. Boost Clock:	Up to 4.2GHz
Base Clock:	3.7GHz
L1 Cache:	384KB
L2 Cache:	3MB
L3 Cache:	8MB
Default TDP:	65W
AMD Configurable TDP (cTDP):	45-65W
Processor Technology for CPU Cores:	TSMC 7nm FinFET
Package Die Count:	1

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Unlocked for Overclocking ⓘ:	Yes
CPU Socket:	AM4
Supporting Chipsets:	X570 X470 X370 B550 B450 B350 A520 A320
CPU Boost Technology:	Precision Boost 2
Instruction Set:	x86-64
Supported Extensions:	AES, AMD-V, AVX, AVX2, FMA3, MMX(+), SHA, SSE, SSE2, SSE3, SSE4.1, SSE4.2, SSE4A, SSSE3, x86-64
Max. Operating Temperature (Tjmax):	95°C
Launch Date:	7/21/2020
*OS Support:	Windows 11 - 64-Bit Edition Windows 10 - 64-Bit Edition RHEL x86 64-Bit Ubuntu x86 64-Bit *Operating System (OS) support will vary by manufacturer.

Connectivity

USB Type-C® Support:	Yes
Native USB 3.2 Gen 2 (10Gbps) Ports:	4
Native USB 3.2 Gen 1 (5Gbps) Ports:	0
Native USB 2.0 (480Mbps) Ports:	0
Native SATA Ports:	2
PCI Express® Version:	PCIe® 3.0
Native PCIe® Lanes (Total/Usable):	24/20
Additional Usable PCIe Lanes from Motherboard:	AMD X570 16x Gen 3 AMD X470 2x Gen 3 AMD X470 8x Gen 2

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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:	No	

Graphics Capabilities

Integrated Graphics:	Yes	
Graphics Model:	Radeon™ Graphics	
Graphics Core Count:	7	
Graphics Frequency:	1900 MHz	
USB Type-C® DisplayPort™ Alternate Mode:	Yes	

Product IDs

Product ID Boxed:	100-100000147BOX	
Product ID Tray:	100-000000147	

Key Features

Supported Technologies:	AMD StoreMI Technology AMD "Zen 2" Core Architecture AMD Ryzen™ VR-Ready Premium	
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