

CP-AY8500+GF

AMD Ryzen 5 8500G 3.5GHz 6-Core 12-Thread AM5 Socket Processor

Product Overview

AMD Ryzen 5 8500G 6-Core 12-Thread Processor, 3.5 GHz Base Clock, 5.0 GHz Boost Clock, 16MB L3 Cache, AM5 Socket, 65W TDP, Dual-Channel DDR5 Support, PCIe 4.0, Radeon 740M Graphics, Includes Wraith Stealth Cooler



Specifications

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Specifications	
Product Code	CP-AY8500+GF
General Details	
Name	AMD Ryzen 5 8500G
Family	Ryzen
Series	Ryzen 8000 Series
Form Factor	Desktops
AMD PRO Technologies	No
Regional Availability	Global
Former Codename	Phoenix
Architecture	2x Zen 4, 4x Zen 4c
# of CPU Cores	6
Multithreading (SMT)	Yes
# of Threads	12
Max. Boost Clock	Up to 5 GHz

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Product Specification Sheet

Max Zen4c Clock	Up to 3.7 GHz
Base Clock	3.5 GHz
Zen4 Base Clock	4.1 GHz
Zen4c Base Clock	3.3 GHz
L2 Cache	6 MB
L3 Cache	16 MB
Default TDP	65W
AMD Configurable TDP (cTDP)	45-65W
Processor Technology for CPU Cores	TSMC 4nm FinFET
CPU Compute Die (CCD) Size	137mm ²
Package Die Count	1
AMD EXPO Memory Overclocking Technology	Yes
Precision Boost Overdrive	Yes
Curve Optimizer Voltage Offsets	Yes
AMD Ryzen Master Support	Yes
CPU Socket	AM5
Supporting Chipsets	A620, X670E, X670, B650E, B650, X870E, X870, B840, B850
CPU Boost Technology	Precision Boost 2
Instruction Set	x86-64
Supported Extensions	AES, AMD-V, AVX, AVX2, AVX512, FMA3, MMX-plus, SHA, SSE, SSE2, SSE3, SSE4.1, SSE4.2, SSE4A, SSSE3, x86-64
Max. Operating Temperature (Tjmax)	95 degreesC
*OS Support	Windows 11 - 64-Bit Edition, Windows 10 - 64-Bit Edition, RHEL x86 64-Bit, Ubuntu x86 64-Bit
Connectivity	
Native USB 4 (40Gbps)	2
Native USB 3.2 Gen 2 (10Gbps)	2
Native USB 2.0 (480Mbps)	1
PCI Express Version	PCIe 4.0
Native PCIe Lanes (Total/Usable)	14, 10
NVMe Support	Boot, RAID0, RAID1
System Memory Type	DDR5
Memory Channels	2
Max. Memory	256 GB
System Memory Subtype	UDIMM

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Product Specification Sheet

Max Memory Speed	2x1R
	DDR5-5200
	2x2R
	DDR5-5200
	4x1R
	DDR5-3600
	4x2R
	DDR5-3600
Graphics Capabilities	
Graphics Model	AMD Radeon 740M
Graphics Core Count	4
Graphics Frequency	2800 MHz
DirectX Version	12
DisplayPort Version	2.1
DisplayPort Extensions	Adaptive-Sync, HDR Metadata, UHBR10
DisplayPort Max Refresh Rates (SDR)	7680x4320 @ 60Hz, 3840x2160 @ 240Hz, 3440x1440 @ 360Hz, 2560x1440 @ 480Hz, 1920x1080 @ 600Hz
DisplayPort Max Refresh Rates (HDR)	7680x4320 @ 60Hz, 3840x2160 @ 240Hz, 3440x1440 @ 360Hz, 2560x1440 @ 480Hz, 1920x1080 @ 600Hz
HDMI Version	2.1
HDCP Version Supported	2.3
USB Type-C DisplayPort Alternate Mode	Yes
Multi-Monitor Support	Yes
Max Displays	4
AMD FreeSync	Yes
Wireless Display	Miracast
Max Video Encode Bandwidth (SDR)	1080p630 8bpc H.264, 1440p373 8bpc H.264, 2160p175 8bpc H.264, 1080p630 8bpc H.265, 1440p373 8bpc H.265, 2160p175 8bpc H.265, 4320p43 8bpc H.265, 1080p864 8/10bpc AV1, 1440p513 8/10bpc AV1, 2160p240 8/10bpc AV1, 4320p60 8/10bpc AV1
Max Video Decode Bandwidth	1080p60 8bpc MPEG2, 1080p60 8bpc VC1, 1080p786 8/10bpc VP9, 2160p196 8/10bpc VP9, 4320p49 8/10bpc VP9, 1080p1200 8bpc H.264, 2160p300 8bpc H.264, 4320p75 8bpc H.264, 1080p786 8/10bpc H.265, 2160p196 8/10bpc H.265, 4320p49 8/10bpc H.265, 1080p960 8/10bpc AV1, 2160p240 8/10bpc AV1, 4320p60 8/10bpc AV1
AMD SmartAccess Memory	Available
AI Engine Capabilities	
AMD Ryzen AI	Not Available
Security, Virtualization and Manageability	
AMD Enhanced Virus Protection (NX bit)	Yes

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/CP-AY8500-GF-AMD-Ryzen-5-8500G-3-5GHz-6-Core-12-Thread-Buy-p-320829.php>

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