ComX Computers
Product Specification Sheet

100-100001237BOX

AMD Ryzen 5 8600G 6 Core 4.3GHz up to 5.0GHz 16MB L3 Cache Socket AM5 Processor

Product Overview

AMD Ryzen 5 8600G 6 Core 4.3GHz up to 5.0GHz 16MB L3 Cache Socket AM5 Processor, Zen 4 Architecture, 6 CPU Cores, 12 threads, 6MB L2 Cache, 16MB L3 Cache, 65W Default TDP, TSMC 4nm FinFET, Wraith Stealth Cooler included, AMD Radeon 760M Integrated Graphics



Specifications

Specifications:

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Specifications	
Product Code	100-100001237BOX
General Specifications	
Platform	Desktop
Product Family	AMD Ryzen Processors
Product Line	AMD Ryzen 5 8000 G-Series Desktop Processors with Radeon Graphics
AMD PRO Technologies	No
Consumer Use	Yes
Regional Availability	Global
Former Codename	"Phoenix"
Architecture	"Zen 4"
# of CPU Cores	6
Multithreading (SMT)	Yes
# of Threads	12
Max. Boost Clock	Up to 5.0GHz

Base Clock	4.3GHz
L2 Cache	6MB
L3 Cache	16MB
Default TDP	65W
AMD Configurable TDP (cTDP)	45-65W
Processor Technology for CPU Cores	TSMC 4nm FinFET
CPU Compute Die (CCD) Size	178mm²
Package Die Count	1
Unlocked for Overclocking	Yes
AMD EXPO Memory Overclocking Technology	Yes
Precision Boost Overdrive	Yes
Curve Optimizer Voltage Offsets	Yes
AMD Ryzen Master Support	Yes
CPU Socket	AM5
CPU Boost Technology	Precision Boost 2
Instruction Set	x86-64
Supported Extensions	AES, AMD-V, AVX, AVX2, AVX512, FMA3, MMX(+), 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
	*Operating System (OS) support will vary by manufacturer.
Connectivity	
Native USB 4 (40Gbps) Ports	2
Native USB 3.2 Gen 2 (10Gbps) Ports	2
Native USB 2.0 (480Mbps) Ports	1
PCI Express Version	PCIe 4.0
Native PCIe Lanes (Total/Usable)	20 / 16
NVMe Support	Boot, RAID0, RAID1
System Memory Type	DDR5
Memory Channels	2
Max. Memory	256GB

System Memory Subtype	UDIMM
Max Memory Speed	2x1R DDR5-5200
	2x2R DDR5-5200
	4X1R DDR5-3600
	4x2R DDR5-3600
Graphics Capabilities	
Integrated Graphics	Yes
Graphics Model	AMD Radeon 760M
Graphics Core Count	8
Graphics Frequency	2800 MHz
DirectX Version	12
DisplayPort Version	2.1
DisplayPort Extensions	HDR Metadata
	Adaptive-Sync
	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	Yes
AI Engine Capabilities	
Brand Name	AMD Ryzen AI
AMD Ryzen AI	Available
Performance	Up to 16 TOPS
Product IDs	
Product ID Boxed	100-100001237BOX
Product ID Tray	100-000001237
Product ID MPK	100-100001237MPK
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/100-100001237BOX-AMD-Ryzen-5-8600G-6-Core-4-3GHz-up-to-5-0GHz-16MB-L3-Cache-Socket-p-294039.php

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