**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 |

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|---|---|
| **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 |

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|---|---|
| **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.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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