

# Intel® Pentium® Gold G6605 Processor

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[intel ark.intel.com/content/www/us/en/ark/products/201904/intel-pentium-gold-g6605-processor-4m-cache-4-30-ghz.html](https://ark.intel.com/content/www/us/en/ark/products/201904/intel-pentium-gold-g6605-processor-4m-cache-4-30-ghz.html)

4M Cache, 4.30 GHz

## Essentials

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- Product Collection [Intel® Pentium® Gold Processor Series](#)
- Processor Number [G6605](#)

## CPU Specifications

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- [Total Cores](#) 2
- [Total Threads](#) 4
- [Processor Base Frequency](#) 4.30 GHz
- [Cache](#) 4 MB Intel® Smart Cache
- [Bus Speed](#) 8 GT/s
- [TDP](#) 58 W

## Memory Specifications

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- [Max Memory Size \(dependent on memory type\)](#) 128 GB
- [Memory Types](#) DDR4-2666
- [Max # of Memory Channels](#) 2
- [Max Memory Bandwidth](#) 41.6 GB/s

## Processor Graphics

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- [Processor Graphics](#) ‡ Intel® UHD Graphics 630
- [Graphics Base Frequency](#) 350 MHz
- [Graphics Max Dynamic Frequency](#) 1.10 GHz
- [Graphics Video Max Memory](#) 64 GB
- [4K Support](#) Yes, at 60Hz
- [Max Resolution \(HDMI\)‡](#) 4096x2160@30Hz
- [Max Resolution \(DP\)‡](#) 4096x2304@60Hz
- [Max Resolution \(eDP - Integrated Flat Panel\)‡](#) 4096x2304@60Hz
- [DirectX\\* Support](#) 12
- [OpenGL\\* Support](#) 4.5
- [Intel® Quick Sync Video](#) Yes
- [Intel® InTru™ 3D Technology](#) Yes
- [Intel® Clear Video HD Technology](#) Yes

- Intel® Clear Video Technology Yes
- # of Displays Supported † 3
- Device ID 0x9BC8

## Expansion Options

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- Scalability 1S Only
- PCI Express Revision 3.0
- PCI Express Configurations ‡ Up to 1x16, 2x8, 1x8+2x4
- Max # of PCI Express Lanes 16

## Advanced Technologies

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- Intel® Optane™ Memory Supported ‡ Yes
- Intel® Thermal Velocity Boost No
- Intel® Turbo Boost Max Technology 3.0 ‡ No
- Intel® Turbo Boost Technology ‡ No
- Intel® Hyper-Threading Technology ‡ Yes
- Intel® Transactional Synchronization Extensions No
- Intel® 64 ‡ Yes
- Instruction Set 64-bit
- Instruction Set Extensions Intel® SSE4.1, Intel® SSE4.2
- Idle States Yes
- Enhanced Intel SpeedStep® Technology Yes
- Thermal Monitoring Technologies Yes
- Intel® Identity Protection Technology ‡ Yes

## Security & Reliability

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- Intel® AES New Instructions Yes
- Secure Key Yes
- Intel® Software Guard Extensions (Intel® SGX) Yes with Intel® ME
- Intel® OS Guard Yes
- Intel® Trusted Execution Technology ‡ No
- Execute Disable Bit ‡ Yes
- Intel® Boot Guard Yes
- Intel® Stable IT Platform Program (SIPP) No
- Intel® Virtualization Technology (VT-x) ‡ Yes
- Intel® Virtualization Technology for Directed I/O (VT-d) ‡ Yes
- Intel® VT-x with Extended Page Tables (EPT) ‡ Yes