

## Intel Pentium Gold G6400 processor 4 GHz 4 MB Smart Cache

**Brand :** Intel

**Product family:** Pentium

**Product code:**  
CM8070104291810

**Product name :** G6400



Intel Pentium Gold G6400 Processor (4MB Cache, 4 GHz)

Intel Pentium Gold G6400. Processor family: Intel® Pentium® Gold, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel® UHD Graphics 610, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2. Package width: 70 mm, Package depth: 116 mm, Package height: 101 mm

Processor		Features	
Processor manufacturer *	Intel	Embedded options available	✗
Processor model *	G6400	Thermal solution specification	PCG 2015C
Processor base frequency *	4 GHz	PCI Express CEM revision	3.0
Processor family *	Intel® Pentium® Gold	Export Control Classification Number (ECCN)	5A992C
Processor cores *	2	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor socket *	LGA 1200 (Socket H5)	<b>Processor special features</b>	
Component for	PC	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography *	14 nm	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor threads	4	Intel® Turbo Boost Technology	✗
System bus rate	8 GT/s	Intel® Quick Sync Video Technology	✓
Processor operating modes *	64-bit	Intel® InTru™ 3D Technology	✓
Processor cache	4 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	58 W	Enhanced Intel SpeedStep Technology	✓
Box *	✗	Intel Trusted Execution Technology	✗
Cooler included *	✗	Intel® Thermal Velocity Boost	✗
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel® Transactional Synchronization Extensions	✗
Processor codename	Comet Lake	Intel VT-x with Extended Page Tables (EPT)	✓
Processor ARK ID	199288	Intel® Secure Key	✓
<b>Memory</b>		Intel Stable Image Platform Program (SIPP)	✗
Maximum internal memory supported by processor	128 GB	Intel® OS Guard	✓
Memory types supported by processor	DDR4-SDRAM	Intel Clear Video Technology	✓
Memory clock speeds supported by processor	2666 MHz	Intel Software Guard Extensions (Intel SGX)	✓
Memory channels *	Dual-channel	Intel 64	✓
<b>Graphics</b>		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card *	✗	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card model *	Intel® UHD Graphics 610	Intel® Optane™ Memory Ready	✓
Maximum on-board graphics card memory	64 GB		
On-board graphics card base frequency	350 MHz		
On-board graphics card dynamic frequency (max)	1050 MHz		
Number of displays supported (on-board graphics)	3		
On-board graphics card 4K support	✓		

Graphics		Processor special features	
On-board graphics card DirectX version	12.0	Intel® Boot Guard	✓
On-board graphics card OpenGL version	4.5	Intel® vPro™ Platform Eligibility	✗
Operational conditions		Tjunction	100 °C
Technical details		Launch date	Q2'20
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Product type	Processor
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Status	Launched
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum memory	128 GB
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Supported memory types	DDR4-SDRAM
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Bus speed	8 GT/s
On-board graphics card ID	0x9BA8	Maximum graphics card memory	64 GB
Discrete graphics card model *	Not available	Processor ID	0x9BA8
Features		Logistics data	
Execute Disable Bit	✓	Harmonized System (HS) code	85423119
Idle States	✓	Packaging data	
Thermal Monitoring Technologies	✓	Package width	70 mm
Market segment	Desktop	Package depth	116 mm
Maximum number of PCI Express lanes	16	Package height	101 mm
PCI Express slots version	3.0	Package type	Retail box
PCI Express configurations	1x16, 2x8, 1x8+2x4	Weight & dimensions	
Supported instruction sets	SSE4.1, SSE4.2	Processor package size	37.5 x 37.5 mm
Scalability	1S	Other features	
CPU configuration (max)	1	Maximum internal memory	128 GB



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