

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

**Brand :** Intel

**Product family:** Pentium

**Product code:** BX80701G6400

**Product name :** G6400



Intel® Pentium® Gold G6400 Processor (4M Cache, 4.00 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 type: Retail box

Processor		Features	
Processor manufacturer *	Intel	CPU configuration (max)	1
Processor model *	G6400	Embedded options available	✗
Processor base frequency *	4 GHz	Thermal solution specification	PCG 2015C
Processor family *	Intel® Pentium® Gold	PCI Express CEM revision	3.0
Processor cores *	2	Export Control Classification Number (ECCN)	5A992C
Processor socket *	LGA 1200 (Socket H5)	Commodity Classification Automated Tracking System (CCATS)	G077159
Component for	PC	<b>Processor special features</b>	
Processor lithography *	14 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology	✗
Processor operating modes *	64-bit	Intel® Quick Sync Video Technology	✓
Processor cache	4 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Thermal Design Power (TDP)	58 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Box *	✓	Enhanced Intel SpeedStep Technology	✓
Cooler included *	✓	Intel Trusted Execution Technology	✗
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel® Thermal Velocity Boost	✗
Processor codename	Comet Lake	Intel® Transactional Synchronization Extensions	✗
Processor ARK ID	199288	Intel VT-x with Extended Page Tables (EPT)	✓
<b>Memory</b>		Intel® Secure Key	✓
Maximum internal memory supported by processor	128 GB	Intel Stable Image Platform Program (SIPP)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® OS Guard	✓
Memory clock speeds supported by processor	2666 MHz	Intel Clear Video Technology	✓
Memory channels *	Dual-channel	Intel Software Guard Extensions (Intel SGX)	✓
<b>Graphics</b>		Intel 64	✓
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card model *	Intel® UHD Graphics 610	Intel Turbo Boost Max Technology 3.0	✗
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® Optane™ Memory Ready	✓
On-board graphics card OpenGL version	4.5	Intel® Boot Guard	✓
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Intel® vPro™ Platform Eligibility	✗
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	<b>Operational conditions</b>	
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	<b>Technical details</b>	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Launch date	Q2'20
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card ID	0x9BA8	Product type	Processor
Discrete graphics card model *	Not available	Status	Launched
<b>Features</b>		Maximum memory	128 GB
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Idle States	✓	Bus speed	8 GT/s
Thermal Monitoring Technologies	✓	Maximum graphics card memory	64 GB
Market segment	Desktop	Processor ID	0x9BA8
Maximum number of PCI Express lanes	16	<b>Logistics data</b>	
PCI Express slots version	3.0	Harmonized System (HS) code	85423119
PCI Express configurations	1x16, 2x8, 1x8+2x4	<b>Packaging data</b>	
Supported instruction sets	SSE4.1, SSE4.2	Package type	Retail box
Scalability	1S	<b>Weight &amp; dimensions</b>	
		Processor package size	37.5 x 37.5 mm
		<b>Other features</b>	
		Maximum internal memory	128 GB



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