

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 (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 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	Processor special features	
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)	✓
Memory		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)	✓
Graphics		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	Operational conditions	
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	Technical details	
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
Features		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	Logistics data	
PCI Express slots version	3.0	Harmonized System (HS) code	85423119
PCI Express configurations	1x16, 2x8, 1x8+2x4	Packaging data	
Supported instruction sets	SSE4.1, SSE4.2	Package type	Retail box
Scalability	1S	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB



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