

Intel Pentium Gold G6405 processor 4.1 GHz 4 MB Smart Cache Box

Brand : Intel

Product family: Pentium

Product code: BX80701G6405

Product name : G6405



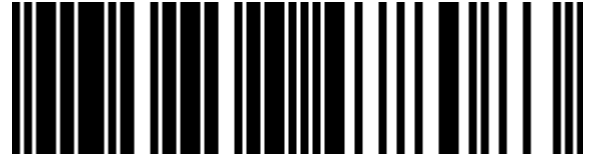
Intel® Pentium® Gold G6405 Processor (4M Cache, 4.10 GHz)
 Intel Pentium Gold G6405. Processor family: Intel® Pentium® Gold, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported 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, Use conditions: PC/Client/Tablet, PCI Express configurations: 1x16, 2x8, 1x8+2x4. Package type: Retail box

Processor		Features	
Processor manufacturer *	Intel	Maximum number of PCI Express lanes	16
Processor model *	G6405	PCI Express slots version	3.0
Processor base frequency *	4.1 GHz	PCI Express configurations	1x16, 2x8, 1x8+2x4
Processor family *	Intel® Pentium® Gold	Supported instruction sets	SSE4.1, SSE4.2
Processor cores *	2	Scalability	1S
Processor socket *	LGA 1200 (Socket H5)	CPU configuration (max)	1
Component for	PC	Embedded options available	✗
Processor lithography *	14 nm	Thermal solution specification	PCG 2015C
Processor threads	4	Export Control Classification Number (ECCN)	5A992C
System bus rate	8 GT/s	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor operating modes *	64-bit		
Processor cache	4 MB		
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	58 W		
Box *	✓		
Memory bandwidth supported by processor (max)	41.6 GB/s		
Processor codename	Comet Lake		
Processor ARK ID	201901		
Memory		Processor special features	
Maximum internal memory supported by processor	128 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Identity Protection Technology (Intel® IPT)	✓
Memory clock speeds supported by processor	2666 MHz	Intel® Turbo Boost Technology	✗
Memory channels *	Dual-channel	Intel® Quick Sync Video Technology	✓
Memory bandwidth (max)	41.6 GB/s	Intel® InTru™ 3D Technology	✓
		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
		Intel® AES New Instructions (Intel® AES-NI)	✓
		Enhanced Intel SpeedStep Technology	✓
		Intel Trusted Execution Technology	✗
		Intel® Thermal Velocity Boost	✗
		Intel® Transactional Synchronization Extensions	✗
		Intel VT-x with Extended Page Tables (EPT)	✓
		Intel® Secure Key	✓
		Intel Stable Image Platform Program (SIPP)	✗
		Intel® OS Guard	✓
		Intel Clear Video Technology	✓
		Intel Software Guard Extensions (Intel SGX)	✓
		Intel 64	✓
Graphics			
On-board graphics card *	✓		
Discrete graphics card *	✗		
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		
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 Virtualization Technology (VT-x)	✓
On-board graphics card OpenGL version	4.5	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Intel® Optane™ Memory Ready	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® Boot Guard	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Intel® vPro™ Platform Eligibility	✗
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Operational conditions	
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Tjunction	100 °C
On-board graphics card ID	0x9BA8	Technical details	
Discrete graphics card model *	Not available	Launch date	Q1'21
Features		Status	Launched
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Idle States	✓	Logistics data	
Thermal Monitoring Technologies	✓	Harmonized System (HS) code	85423119
Market segment	Desktop	Packaging data	
Use conditions	PC/Client/Tablet	Package type	Retail box
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB



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