

Intel Pentium Gold G5400 processor 3.7 GHz 4 MB Smart Cache

Brand : Intel

Product family: Pentium

Product code:
CM8068403360112

Product name : G5400

Intel® Pentium® Gold G5400 Processor (4M Cache, 3.70 GHz)

Intel Pentium Gold G5400. Processor family: Intel® Pentium® Gold, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 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	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor model *	G5400	Processor special features	
Processor base frequency *	3.7 GHz		
Processor family *	Intel® Pentium® Gold	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	2	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® Turbo Boost Technology	✗
Component for	PC	Intel® Quick Sync Video Technology	✓
Processor lithography *	14 nm	Intel® InTru™ 3D Technology	✓
Processor series	Intel Pentium Gold Series	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	8 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel Trusted Execution Technology	✗
Processor cache	4 MB	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cache type	Smart Cache	Intel® Transactional Synchronization Extensions	✗
Thermal Design Power (TDP)	58 W	Intel Enhanced Halt State	✓
Box *	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Cooler included *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	DMI3	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	37.5 GB/s	Intel TSX-NI	✗
Processor codename	Coffee Lake	Intel Stable Image Platform Program (SIPP)	✗
Processor ARK ID	129951	Intel® OS Guard	✓
Memory		Intel Clear Video Technology	✓
Maximum internal memory supported by processor	64 GB	Intel Software Guard Extensions (Intel SGX)	✓
Memory types supported by processor	DDR4-SDRAM	Intel 64	✓
Memory clock speeds supported by processor	2400 MHz	Intel Identity Protection Technology version	1.00
Memory channels *	Dual-channel	Intel Secure Key Technology version	1.00
ECC	✓	Intel Stable Image Platform Program (SIPP) version	0.00
Graphics		Intel Virtualization Technology (VT-x)	✓
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		

Graphics		Processor special features	
Number of displays supported (on-board graphics)	3	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card 4K support	✓	Intel TSX-NI version	0.00
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 2304 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	Bus bandwidth	8
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Bus type units	GT/s
On-board graphics card ID	0x3E90/x93	Launch date	Q2'18
Discrete graphics card model *	Not available	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
Features		Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
Execute Disable Bit	✓	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
Idle States	✓	Processor cache	4096 KB
Thermal Monitoring Technologies	✓	Product type	Processor
Market segment	Desktop	Status	Launched
Maximum number of PCI Express lanes	16	Maximum memory	64 GB
PCI Express slots version	3.0	Processor brand name	Intel Pentium Gold (2017) Intel Pentium Gold Processor (2017)
PCI Express configurations	1x16, 2x8, 1x8+2x4	Supported memory types	DDR4-SDRAM
Supported instruction sets	SSE4.1, SSE4.2	Last change	63903513
Scalability	1S	Product family	Intel Pentium Processor
CPU configuration (max)	1	Bus speed	8 GT/s
Embedded options available	✓	Maximum graphics card memory	64 GB
Thermal solution specification	PCG 2015C	Processor ID	0x3E90/x93
PCI Express CEM revision	3.0	Logistics data	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	8542310001
		Packaging data	
		Package type	Retail box
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB



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