

## Intel Pentium Gold G5400 processor 3.7 GHz 4 MB Smart Cache Box

**Brand :** Intel

**Product family:** Pentium

**Product code:** BX80684G5400

**Product name :** G5400



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

Intel Pentium Gold G5400. Processor family: Intel® Pentium®, 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 outputs supported: DisplayPort, Embedded DisplayPort (eDP), HDMI. 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		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	G5400	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor base frequency *	3.7 GHz	Intel® Turbo Boost Technology	✗
Processor family *	Intel® Pentium®	Intel® Quick Sync Video Technology	✓
Processor cores *	2	Intel® InTru™ 3D Technology	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Component for	Server/workstation	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography *	14 nm	Enhanced Intel SpeedStep Technology	✓
Processor threads	4	Intel Trusted Execution Technology	✗
System bus rate	8 GT/s	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor operating modes *	64-bit	Intel® Device Protection Technology (Intel® DPT) with Boot Guard	✓
Processor cache	4 MB	Intel® Transactional Synchronization Extensions	✗
Processor cache type	Smart Cache	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	58 W	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Box *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Cooler included *	✓	Intel® Secure Key	✓
Bus type	DMI3	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	37.5 GB/s	Intel Stable Image Platform Program (SIPP)	✗
Processor codename	Coffee Lake	Intel® OS Guard	✓
Processor ARK ID	129951	Intel Clear Video Technology	✓
<b>Memory</b>		Intel Software Guard Extensions (Intel SGX)	✓
Maximum internal memory supported by processor	64 GB	Intel 64	✓
Memory types supported by processor	DDR4-SDRAM	Intel Identity Protection Technology version	1.00
Memory clock speeds supported by processor	2400 MHz	Intel Secure Key Technology version	1.00
Memory channels *	Dual-channel	Intel Stable Image Platform Program (SIPP) version	0.00
ECC	✓	Intel Virtualization Technology (VT-x)	✓
<b>Graphics</b>			
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 outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI		
On-board graphics card base frequency	350 MHz		

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of displays supported (on-board graphics)	3	Intel TSX-NI version	0.00
On-board graphics card 4K support	✓	Intel® Optane™ Memory Ready	✓
On-board graphics card DirectX version	12.0	Intel® Boot Guard	✓
On-board graphics card OpenGL version	4.5	Intel® vPro™ Platform Eligibility	✗
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	<b>Operational conditions</b>	
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Tjunction	100 °C
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	<b>Technical details</b>	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Bus bandwidth	8
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Bus type units	GT/s
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Launch date	Q2'18
On-board graphics card ID	0x3E90/x93	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
<b>Features</b>		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	<b>Logistics data</b>	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	8542310001
Commodity Classification Automated Tracking System (CCATS)	G077159	<b>Packaging data</b>	
		Package width	70 mm
		Package depth	116 mm
		Package height	101 mm
		Package weight	338 g
		Package type	Retail box
		<b>Weight &amp; dimensions</b>	
		Processor package size	37.5 x 37.5 mm
		<b>Other features</b>	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB



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