

Intel Pentium Gold G7400 processor 6 MB Smart Cache Box

Brand : Intel

Product family: Pentium

Product code: BX80715G7400

Product name : G7400

Boxed Intel® Pentium® Gold G7400 Processor (6M Cache, 3.70 GHz) FC-LGA16A
 Intel Pentium Gold G7400. Processor family: Intel® Pentium® Gold, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. On-board graphics card model: Intel UHD Graphics 710, On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-board graphics card base frequency: 300 MHz. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 5.0, 4.0. Package type: Retail box



Processor		Features	
Processor manufacturer *	Intel	Maximum number of PCI Express lanes	20
Processor model *	G7400	PCI Express slots version	5.0, 4.0
Processor family *	Intel® Pentium® Gold	PCI Express configurations	1x16+1x4, 2x8+1x4
Processor cores *	2	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor socket *	LGA 1700	Scalability	1S
Processor threads	4	CPU configuration (max)	1
Processor operating modes *	64-bit	Embedded options available	✗
Performance cores	2	Direct Media Interface (DMI) Revision	4.0
Performance-core base frequency	3.7 GHz	Harmonized System (HS) code	85423119
Processor cache	6 MB	Export Control Classification Number (ECCN)	5A992CN3
Processor cache type	Smart Cache	Commodity Classification Automated Tracking System (CCATS)	G167599
Box *	✓	Processor special features	
Processor base power	46 W	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Stepping	H0	Intel® Turbo Boost Technology	✗
Bus type	DMI4	Intel® Quick Sync Video Technology	✓
Maximum number of DMI lanes	8	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor codename	Alder Lake	Enhanced Intel SpeedStep Technology	✓
Memory		Intel® Speed Shift Technology	✓
Maximum internal memory supported by processor	128 GB	Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0	✓
Memory types supported by processor	DDR4-SDRAM, DDR5-SDRAM	Intel® Control-flow Enforcement Technology (CET)	✓
Memory channels *	Dual-channel	Intel® Thread Director	✗
Memory bandwidth (max)	76.8 GB/s	Intel VT-x with Extended Page Tables (EPT)	✓
Graphics		Intel® Secure Key	✓
On-board graphics card *	✓	Intel® OS Guard	✓
Discrete graphics card *	✗	Intel 64	✓
On-board graphics card model *	Intel UHD Graphics 710	Intel Virtualization Technology (VT-x)	✓
On-board graphics card outputs supported	Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card base frequency	300 MHz		
On-board graphics card dynamic frequency (max)	1350 MHz		
Number of displays supported (on-board graphics)	4		
On-board graphics card DirectX version	12.0		

Graphics		Processor special features	
On-board graphics card OpenGL version	4.5	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card maximum resolution (DisplayPort)	7680 x 4320 pixels	Intel® Optane™ Memory Ready	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	5120 x 3200 pixels	Intel® Boot Guard	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® Deep Learning Boost (Intel® DL Boost)	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Intel® Volume Management Device (VMD)	✓
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	120 Hz	Mode-based Execute Control (MBE)	✓
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Intel® Standard Manageability (ISM)	✓
On-board graphics card ID	0x4693	Operational conditions	
Discrete graphics card model *	Not available	Tjunction	100 °C
Number of execution units	16	Technical details	
Multi-Format Codec Engines	1	OpenCL version	2.1
		Launch date	Q1'22
		Status	Launched
		Packaging data	
		Package type	Retail box
		Weight & dimensions	
		Processor package size	45 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB
		Graphics output	eDP 1.4b, DP 1.4a, HDMI 2.1
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Desktop		
Use conditions	PC/Client/Tablet		



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