

Intel Celeron G5905 processor 3.5 GHz 4 MB Smart Cache Box

Brand : Intel

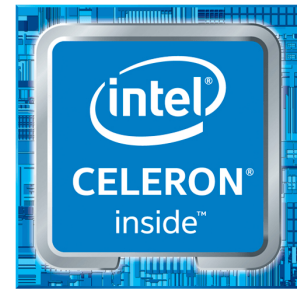
Product family: Celeron

Product code: BX80701G5905

Product name : G5905

Intel Celeron G5905 Processor (4MB Cache, 3.5 GHz)

Intel Celeron G5905. Processor family: Intel® Celeron® G, 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	Scalability	1S
Processor model *	G5905	CPU configuration (max)	1
Processor base frequency *	3.5 GHz	Embedded options available	✗
Processor family *	Intel® Celeron® G	Thermal solution specification	PCG 2015C
Processor cores *	2	PCI Express CEM revision	3.0
Processor socket *	LGA 1200 (Socket H5)	Harmonized System (HS) code	85423119
Component for	PC	Export Control Classification Number (ECCN)	5A992C
Processor lithography *	14 nm	Commodity Classification Automated Tracking System (CCATS)	G077159
Processor threads	2	Processor special features	
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cache	4 MB	Intel® Turbo Boost Technology	✗
Processor cache type	Smart Cache	Intel® Quick Sync Video Technology	✓
Thermal Design Power (TDP)	58 W	Intel® InTru™ 3D Technology	✓
Box *	✓	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Cooler included *	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory bandwidth supported by processor (max)	41.6 GB/s	Enhanced Intel SpeedStep Technology	✓
Processor codename	Comet Lake	Intel Trusted Execution Technology	✗
Processor ARK ID	201899	Intel® Thermal Velocity Boost	✗
Memory		Intel® Transactional Synchronization Extensions	✗
Maximum internal memory supported by processor	128 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Secure Key	✓
Memory clock speeds supported by processor	2666 MHz	Intel Stable Image Platform Program (SIPP)	✗
Memory channels *	Dual-channel	Intel® OS Guard	✓
Graphics		Intel Clear Video Technology	✓
On-board graphics card *	✓	Intel Software Guard Extensions (Intel SGX)	✓
Discrete graphics card *	✗	Intel 64	✓
On-board graphics card model *	Intel® UHD Graphics 610	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	64 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card base frequency	350 MHz	Intel Turbo Boost Max Technology 3.0	✗
On-board graphics card dynamic frequency (max)	1050 MHz	Intel® Optane™ Memory Ready	✓
Number of displays supported (on-board graphics)	3	Intel® Boot Guard	✓
On-board graphics card 4K support	✓		
On-board graphics card DirectX version	12.0		
On-board graphics card OpenGL version	4.5		

Graphics		Processor special features	
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	Q3'20
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	Packaging data	
PCI Express slots version	3.0	Package type	Retail box
PCI Express configurations	1x16, 2x8, 1x8+2x4	Weight & dimensions	
Supported instruction sets	SSE4.1, SSE4.2	Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB



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