

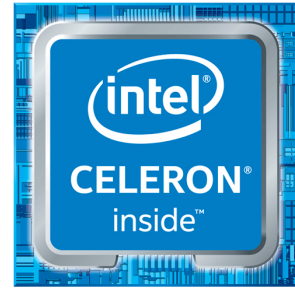
Intel Celeron G5905 processor 3.5 GHz 4 MB Smart Cache Box

Brand : Intel

Product family: Celeron

Product code: BX80701G5905

Product name : G5905



Intel® Celeron® Processor G5905 (4M Cache, 3.50 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	CPU configuration (max)	1
Processor model *	G5905	Embedded options available	✗
Processor base frequency *	3.5 GHz	Thermal solution specification	PCG 2015C
Processor family *	Intel® Celeron® G	PCI Express CEM revision	3.0
Processor cores *	2	Export Control Classification Number (ECCN)	5A992C
Processor socket *	LGA 1200 (Socket H5)	Commodity Classification Automated Tracking System (CCATS)	G077159
Component for	PC	Processor special features	
Processor lithography *	14 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor threads	2	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology	✗
Processor operating modes *	64-bit	Intel® Quick Sync Video Technology	✓
Processor cache	4 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Thermal Design Power (TDP)	58 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Box *	✓	Enhanced Intel SpeedStep Technology	✓
Cooler included *	✓	Intel Trusted Execution Technology	✗
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel® Thermal Velocity Boost	✗
Processor codename	Comet Lake	Intel® Transactional Synchronization Extensions	✗
Processor ARK ID	201899	Intel VT-x with Extended Page Tables (EPT)	✓
Memory		Intel® Secure Key	✓
Maximum internal memory supported by processor	128 GB	Intel Stable Image Platform Program (SIPP)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® OS Guard	✓
Memory clock speeds supported by processor	2666 MHz	Intel Clear Video Technology	✓
Memory channels *	Dual-channel	Intel Software Guard Extensions (Intel SGX)	✓
Graphics		Intel 64	✓
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card model *	Intel® UHD Graphics 610	Intel Turbo Boost Max Technology 3.0	✗
Maximum on-board graphics card memory	64 GB	Intel® Optane™ Memory Ready	✓
On-board graphics card base frequency	350 MHz	Intel® Boot Guard	✓
On-board graphics card dynamic frequency (max)	1050 MHz	Intel® vPro™ Platform Eligibility	✗
Number of displays supported (on-board graphics)	3		
On-board graphics card 4K support	✓		
On-board graphics card DirectX version	12.0		
On-board graphics card OpenGL version	4.5		

Graphics		Operational conditions	
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Tjunction	100 °C
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Technical details	
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Launch date	Q3'20
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Product type	Processor
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Status	Launched
On-board graphics card ID	0x9BA8	Maximum memory	128 GB
Discrete graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Features		Bus speed	8 GT/s
Execute Disable Bit	✓	Maximum graphics card memory	64 GB
Idle States	✓	Processor ID	0x9BA8
Thermal Monitoring Technologies	✓	Logistics data	
Market segment	Desktop	Harmonized System (HS) code	85423119
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
Scalability	1S	Other features	
		Maximum internal memory	128 GB



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