

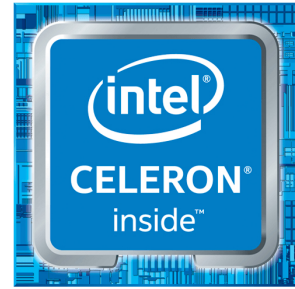
## Intel Celeron G3900 processor 2.8 GHz 2 MB Smart Cache

**Brand :** Intel

**Product family:** Celeron

**Product code:**  
CM8066201928610

**Product name :** G3900



Intel® Celeron® Processor G3900  
(2M Cache, 2.80 GHz)

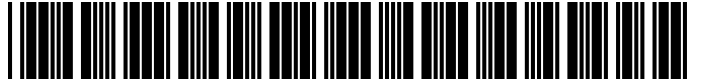
Intel Celeron G3900. Processor family: Intel® Celeron® G, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-SDRAM, DDR3L-SDRAM. On-board graphics card model: Intel® HD Graphics 510, Maximum on-board graphics card memory: 64 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2. Package type: Retail box

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor model *	G3900	Intel® Turbo Boost Technology	✗
Processor base frequency *	2.8 GHz	Intel® Quick Sync Video Technology	✓
Processor family *	Intel® Celeron® G	Intel® InTru™ 3D Technology	✓
Processor cores *	2	Intel® Wireless Display (Intel® WiDi)	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Component for	PC	Intel® Insider™	✓
Processor lithography *	14 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Celeron Processor G3000 series for Desktop	Enhanced Intel SpeedStep Technology	✓
Processor threads	2	Intel Trusted Execution Technology	✗
System bus rate	8 GT/s	Intel® Memory Protection Extensions (Intel® MPX)	✗
Processor operating modes *	64-bit	Intel® Transactional Synchronization Extensions	✗
Processor cache	2 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Thermal Design Power (TDP)	51 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel® Secure Key	✓
Cooler included *	✗	Intel TSX-NI	✗
Compatible chipsets	Intel® B150, Intel® H110, Intel® H170, Intel Q150, Intel® Q170, Intel® Z170	Intel Stable Image Platform Program (SIPP)	✗
Stepping	S0	Intel® OS Guard	✗
Bus type	DMI3	Intel® Small Business Advantage (Intel® SBA)	✗
Memory bandwidth supported by processor (max)	34.1 GB/s	Intel Clear Video Technology	✓
Processor codename	Skylake	Intel Software Guard Extensions (Intel SGX)	✓
Processor code	SR2HV	Intel 64	✓
Processor ARK ID	90741	Intel Secure Key Technology version	1.00
		Intel Small Business Advantage (SBA) version	0.00
		Intel Stable Image Platform Program (SIPP) version	0.00
		Intel Virtualization Technology (VT-x)	✓
Memory			
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM, DDR3L-SDRAM		
Memory clock speeds supported by processor	1333,1600,1866,2133 MHz		
Memory voltage supported by processor	1.35 V		
Memory channels *	Dual-channel		
ECC	✓		
Graphics			
On-board graphics card *	✓		

Graphics		Processor special features	
On-board graphics card model *	Intel® HD Graphics 510	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum on-board graphics card memory	64 GB	Intel TSX-NI version	0.00
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI	Conflict-Free processor	✓
On-board graphics card base frequency	350 MHz	Intel® Optane™ Memory Ready	✗
On-board graphics card dynamic frequency (max)	950 MHz	Intel® Boot Guard	✓
Number of displays supported (on-board graphics)	3	Intel® vPro™ Platform Eligibility	✗
On-board graphics card 4K support	✓	Technical details	
On-board graphics card DirectX version	12.0	Bus bandwidth	8
On-board graphics card OpenGL version	4.4	Bus type units	GT/s
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Launch date	Q4'15
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (VGA)	N/A
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Processor cache	2048 KB
On-board graphics card ID	0x1902	Product type	Processor
Features		Status	Launched
Execute Disable Bit	✓	Maximum memory	64 GB
Idle States	✓	Processor brand name	Intel Celeron
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM, DDR3L-SDRAM
Market segment	Desktop	Last change	63903513
Maximum number of PCI Express lanes	16	Maximum resolution (WiDi)	1080p
PCI Express slots version	3.0	Product family	Intel Celeron Processor
PCI Express configurations	1x16, 2x8, 1x8+2x4	Bus speed	8 GT/s
Supported instruction sets	SSE4.1, SSE4.2	Maximum graphics card memory	64 GB
Scalability	1S	Processor ID	0x1902
CPU configuration (max)	1	Servicing status	End of Servicing Lifetime
Embedded options available	✓	End of servicing updates date	Friday, September 30, 2022
Graphics & IMC lithography	14 nm	Logistics data	
Thermal solution specification	PCG 2015C	Harmonized System (HS) code	85423119
PCI Express CEM revision	3.0	Packaging data	
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB
		Graphics output	eDP/DP/HDMI/DVI
		Video decoding	✓



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