



## HP Intel Celeron G1840 processor 2.8 GHz 2 MB L3

**Brand :** HP

**Product code:** 769731-001

**Product name :** Intel Celeron G1840

Intel Celeron G1840, 2M Cache, 2.8 GHz, 5 GT/s DMI2

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HP Intel Celeron G1840. Processor family: Intel® Celeron® G, Processor socket: LGA 1150 (Socket H3), Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM, DDR3L. On-board graphics card model: Intel® HD Graphics, Maximum on-board graphics card memory: 1.7 GB, On-board graphics card outputs supported: DVI, DisplayPort, Embedded DisplayPort (eDP), HDMI, VGA (D-Sub). Market segment: Desktop, PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: SSE4.1, SSE4.2. Compatibility: EliteOne 800 G1

Processor		Graphics	
Processor model *	G1840	On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz
Processor base frequency *	2.8 GHz	On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz
Processor family *	Intel® Celeron® G	On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz
Processor cores *	2	<b>Features</b>	
Processor socket *	LGA 1150 (Socket H3)		
Component for	PC	Execute Disable Bit	✓
Processor lithography *	22 nm	Idle States	✓
Processor series	Intel Celeron Processor G1000 Series for Desktop	Thermal Monitoring Technologies	✓
Processor threads	2	Market segment	Desktop
System bus rate	5 GT/s	Maximum number of PCI Express lanes	16
Processor operating modes *	64-bit	PCI Express slots version	3.0
Processor cache	2 MB	PCI Express configurations	1x16, 1x8+2x4, 2x8
Processor cache type	L3	Supported instruction sets	SSE4.1, SSE4.2
Thermal Design Power (TDP)	53 W	Scalability	1S
Stepping	C0	CPU configuration (max)	1
Bus type	DMI2	Embedded options available	✗
Memory bandwidth supported by processor (max)	21.3 GB/s	Graphics & IMC lithography	22 nm
<b>Memory</b>		Thermal solution specification	PCG 2013C
Maximum internal memory supported by processor	32 GB	<b>Processor special features</b>	
Memory types supported by processor	DDR3-SDRAM, DDR3L		
Memory clock speeds supported by processor	1333 MHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Memory voltage supported by processor	1.5 V	Intel® Turbo Boost Technology	✗
Memory channels *	Dual-channel	Intel® Quick Sync Video Technology	✓
ECC	✓	Intel® Wireless Display (Intel® WiDi)	✓
<b>Graphics</b>		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
On-board graphics card *	✓	Intel® AES New Instructions (Intel® AES-NI)	✓
On-board graphics card model *	Intel® HD Graphics	Enhanced Intel SpeedStep Technology	✓
Maximum on-board graphics card memory	1.7 GB	Intel Trusted Execution Technology	✗
On-board graphics card outputs supported	DVI, DisplayPort, Embedded DisplayPort (eDP), HDMI, VGA (D-Sub)	Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card base frequency	350 MHz	Intel® Secure Key	✓
		Intel TSX-NI	✗

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Stable Image Platform Program (SIPP)	✗
Number of displays supported (on-board graphics)	3	Intel 64	✓
On-board graphics card DirectX version	11.1/12	Intel Virtualization Technology (VT-x)	✓
On-board graphics card OpenGL version	4.3	Intel Virtualization Technology for Directed I/O (VT-d)	✗
On-board graphics card maximum resolution (DisplayPort)	2560 x 1600 pixels	Conflict-Free processor	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	2560 x 1600 pixels	Intel® vPro™ Platform Eligibility	✗
On-board graphics card maximum resolution (HDMI)	1920 x 1080 pixels	Operational conditions	
On-board graphics card maximum resolution (VGA)	1920 x 1200 pixels	Tcase	72 °C
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Other features	
		Compatibility	EliteOne 800 G1

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