



HP Intel Celeron G1830 processor 2.8 GHz 2 MB Smart Cache

Brand : HP

Product code: 758757-001

Product name : Intel Celeron G1830

Intel Celeron G1830 , 2M Cache, 2.8 GHz, 5 GT/s DMI2

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HP Intel Celeron G1830. 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 *	G1830	On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz
Processor base frequency *	2.8 GHz	On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz
Processor family *	Intel® Celeron® G	On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz
Processor cores *	2	On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz
Processor socket *	LGA 1150 (Socket H3)	Features	
Component for	PC		
Processor lithography *	22 nm		
Processor series	Intel Celeron Processor G1000 Series for Desktop		
Processor threads	2		
System bus rate	5 GT/s		
Processor operating modes *	64-bit		
Processor cache	2 MB		
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	53 W		
Stepping	C0		
Bus type	DMI2		
Memory bandwidth supported by processor (max)	21.3 GB/s		
Memory			
Maximum internal memory supported by processor	32 GB		
Memory types supported by processor	DDR3-SDRAM, DDR3L		
Memory clock speeds supported by processor	1333 MHz		
Memory voltage supported by processor	1.5 V		
Memory channels *	Dual-channel		
ECC	✓		
Graphics			
On-board graphics card *	✓		
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)		
On-board graphics card base frequency	350 MHz		

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
		Other features	
		Compatibility	EliteOne 800 G1

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