

Intel Xeon E-2174G processor 3.8 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

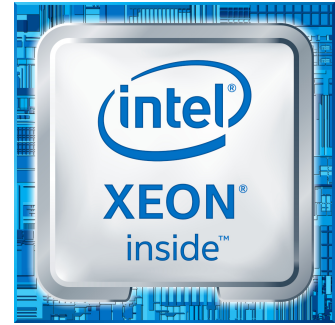
Product code:
BX80684E2174G

Product name : E-2174G

Intel® Xeon® E-2174G Processor

(8M Cache, up to 4.70 GHz)

Intel Xeon E-2174G. Processor family: Intel® Xeon®, Processor socket: LGA 1151 (Socket H4), 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 P630, Maximum on-board graphics card memory: 128 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI. Market segment: Server, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4.7 GHz

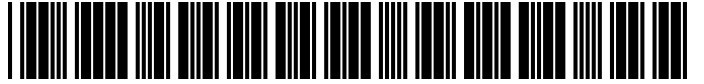


Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor model *	E-2174G	Automated Tracking System (CCATS)	G077159
Processor base frequency *	3.8 GHz	Processor special features	
Processor family *	Intel® Xeon®	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	4	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 1151 (Socket H4)	Intel® Quick Sync Video Technology	✓
Component for	Server/workstation	Intel® InTru™ 3D Technology	✓
Processor lithography *	14 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	8	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	8 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel Trusted Execution Technology	✓
Processor boost frequency	4.7 GHz	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cache	8 MB	Intel® Turbo Boost Technology 2.0 frequency	4.7 GHz
Processor cache type	Smart Cache	Intel® Transactional Synchronization Extensions	✓
Thermal Design Power (TDP)	71 W	Intel Enhanced Halt State	✓
Box *	✓	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Cooler included *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	DMI3	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel TSX-NI	✓
Processor codename	Coffee Lake	Intel® OS Guard	✓
Processor ARK ID	134864	Intel Clear Video Technology	✓
Memory		Intel Software Guard Extensions (Intel SGX)	✓
Maximum internal memory supported by processor	128 GB	Intel 64	✓
Memory types supported by processor	DDR4-SDRAM	Intel Secure Key Technology version	1.00
Memory clock speeds supported by processor	2666 MHz	Intel Virtualization Technology (VT-x)	✓
Memory channels *	Dual-channel	Intel Virtualization Technology for Directed I/O (VT-d)	✓
ECC	✓	Intel TSX-NI version	1.00
Graphics		Intel® Optane™ Memory Ready	✓
On-board graphics card *	✓	Intel® Boot Guard	✓
Discrete graphics card *	✗		
On-board graphics card model *	Intel UHD Graphics P630		
Maximum on-board graphics card memory	128 GB		
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI		
On-board graphics card base frequency	350 MHz		

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1200 MHz	Intel® vPro™ Platform Eligibility	✓
Number of displays supported (on-board graphics)	3	Operational conditions	
On-board graphics card 4K support	✓	Tjunction	100 °C
On-board graphics card DirectX version	12.0	Technical details	
On-board graphics card OpenGL version	4.5	Bus bandwidth	8
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Bus type units	GT/s
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Launch date	Q3'18
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (HDMI)	4096x2160@24Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Maximum resolution & refresh rate (VGA)	N/A
On-board graphics card ID	0x3E96	Processor cache	8192 KB
Discrete graphics card model *	Not available	Product type	Processor
Features		Status	Launched
Execute Disable Bit	✓	Maximum memory	128 GB
Idle States	✓	Processor brand name	Intel Xeon
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM
Market segment	Server	Last change	63903513
Maximum number of PCI Express lanes	16	Product family	Intel Xeon Processors
PCI Express slots version	3.0	Bus speed	8 GT/s
PCI Express configurations	1x16, 2x8, 1x8+2x4	Maximum graphics card memory	128 GB
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Processor ID	0x3E96
Scalability	1S	Servicing status	Baseline Servicing
CPU configuration (max)	1	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	85423119
PCI Express CEM revision	3.0	Packaging data	
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB
		Maximum internal memory	131072 MB
		Graphics output	eDP/DP/HDMI/DVI
		Video decoding	✓



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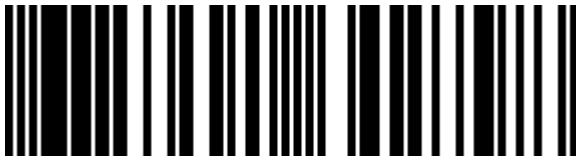
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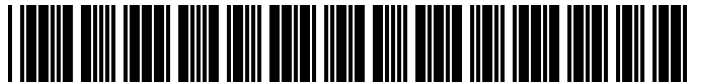
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