



HP Intel Core i3-4160 processor 3.6 GHz 3 MB Smart Cache

Brand : HP

Product code: 787617-001

Product name : Intel Core i3-4160

Intel Core i3-4160, 3M Cache, 3.6 GHz, 5 GT/s DMI2

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HP Intel Core i3-4160. Processor family: Intel® Core™ i3, 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 4400, Maximum on-board graphics card memory: 2 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: AVX 2.0, SSE4.1, SSE4.2. Compatibility: ProDesk 600 G1

Processor		Graphics	
Processor generation	4th gen Intel® Core™ i3	On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz
Processor model *	i3-4160	On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz
Processor base frequency *	3.6 GHz	Features	
Processor family *	Intel® Core™ i3	Execute Disable Bit	✓
Processor cores *	2	Idle States	✓
Processor socket *	LGA 1150 (Socket H3)	Thermal Monitoring Technologies	✓
Component for	PC	Market segment	Desktop
Processor lithography *	22 nm	Maximum number of PCI Express lanes	16
Processor series	Intel Core i3-4100 Desktop series	PCI Express slots version	3.0
Processor threads	4	PCI Express configurations	1x16, 1x8+2x4, 2x8
System bus rate	5 GT/s	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor operating modes *	64-bit	Scalability	1S
Processor cache	3 MB	CPU configuration (max)	1
Processor cache type	Smart Cache	Embedded options available	✗
Thermal Design Power (TDP)	54 W	Graphics & IMC lithography	22 nm
Stepping	C0	Thermal solution specification	PCG 2013C
Bus type	DMI2	Processor special features	
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory		Intel® Turbo Boost Technology	✗
Maximum internal memory supported by processor	32 GB	Intel® Quick Sync Video Technology	✓
Memory types supported by processor	DDR3-SDRAM, DDR3L	Intel® InTru™ 3D Technology	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel® Wireless Display (Intel® WiDi)	✓
Memory voltage supported by processor	1.5 V	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory channels *	Dual-channel	Intel® AES New Instructions (Intel® AES-NI)	✓
ECC	✓	Enhanced Intel SpeedStep Technology	✓
Graphics		Intel Trusted Execution Technology	✗
On-board graphics card *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card model *	Intel® HD Graphics 4400	Intel® Secure Key	✓
Maximum on-board graphics card memory	2 GB	Intel TSX-NI	✗
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)	1150 MHz	Intel Stable Image Platform Program (SIPP)	✗
Number of displays supported (on-board graphics)	3	Intel® Small Business Advantage (Intel® SBA)	✓
On-board graphics card DirectX version	11.1/12	Intel 64	✓
On-board graphics card OpenGL version	4.3	Intel Virtualization Technology (VT-x)	✓
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Intel Virtualization Technology for Directed I/O (VT-d)	✗
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	3840 x 2160 pixels	Conflict-Free processor	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Intel® vPro™ Platform Eligibility	✗
On-board graphics card maximum resolution (VGA)	1920 x 1200 pixels	Operational conditions	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Tcase	72 °C
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Other features	
		Compatibility	ProDesk 600 G1

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