

Essentials

- Product Collection [4th Generation Intel® Core™ i3 Processors](#)
- Code Name [Products formerly Haswell](#)
- Vertical Segment Desktop
- Processor Number i3-4170
- Status End of Life
- Launch Date Q1'15
- Lithography 22 nm
- Recommended Customer Price \$117.00

Performance

- # of Cores 2
- # of Threads 4
- Processor Base Frequency 3.70 GHz
- Cache 3 MB
- Bus Speed 5 GT/s DMI2
- TDP 54 W

Supplemental Information

- Embedded Options Available No
- Conflict Free Yes
- Datasheet [View now](#)

[Learn how Intel is pursuing conflict-free technology.](#)

Memory Specifications

- Max Memory Size (dependent on memory type) 32 GB
- Memory Types DDR3-1333/1600, DDR3L-1333/1600 @ 1.5V
- Max # of Memory Channels 2
- Max Memory Bandwidth 25.6 GB/s
- ECC Memory Supported † Yes

Graphics Specifications

- Processor Graphics † Intel® HD Graphics 4400
- Graphics Base Frequency 350 MHz
- Graphics Max Dynamic Frequency 1.15 GHz
- Graphics Video Max Memory 2 GB
- Graphics Output eDP/DP/HDMI/DVI/VGA
- Max Resolution (HDMI 1.4)‡ 4096x2304@24Hz

- Max Resolution (DP)‡ 3840x2160@60Hz
- Max Resolution (eDP - Integrated Flat Panel)‡ 3840x2160@60Hz
- Max Resolution (VGA)‡ 1920x1200@60Hz
- DirectX* Support 11.1/12
- OpenGL* Support 4.3
- Intel® Quick Sync Video Yes
- Intel® InTru™ 3D Technology Yes
- Intel® Clear Video HD Technology Yes
- # of Displays Supported ‡ 3
- Device ID 0x41E

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Expansion Options

- Scalability 1S Only
- PCI Express Revision Up to 3.0
- PCI Express Configurations ‡ Up to 1x16, 2x8, 1x8+2x4
- Max # of PCI Express Lanes 16

Package Specifications

- Sockets Supported FCLGA1150
- Max CPU Configuration 1
- Thermal Solution Specification PCG 2013C
- T_{CASE} 72°C
- Package Size 37.5mm x 37.5mm
- Low Halogen Options Available See MDDS

Advanced Technologies

- Intel® Turbo Boost Technology ‡ No
- Intel® vPro™ Technology ‡ No
- Intel® Hyper-Threading Technology ‡ Yes
- Intel® Virtualization Technology (VT-x) ‡ Yes
- Intel® Virtualization Technology for Directed I/O (VT-d) ‡ No
- Intel® VT-x with Extended Page Tables (EPT) ‡ Yes
- Intel® TSX-NI No
- Intel® 64 ‡ Yes
- Instruction Set 64-bit
- Instruction Set Extensions SSE4.1/4.2, AVX 2.0
- Idle States Yes
- Enhanced Intel SpeedStep® Technology Yes
- Thermal Monitoring Technologies Yes
- Intel® Stable Image Platform Program (SIPP) No

Security & Reliability

- Intel® AES New Instructions Yes
- Secure Key Yes
- Intel® Trusted Execution Technology ‡ No
- Execute Disable Bit ‡ Yes