

Intel Core i3-4150 processor 3.5 GHz 3 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX80646I34150

Product name : i3-4150

Intel® Core™ i3-4150 Processor
(3M Cache, 3.50 GHz)

Intel Core i3-4150 processor 3.5 GHz 3 MB Smart Cache Box:

Amazing performance and stunning visuals start here. Get a smooth, seamless visual experience with a 4th generation Intel® Core™ i3 processor, featuring longer battery life and built-in security for deeper protection.

Effortlessly move among applications with smart multitasking from Intel® Hyper-Threading Technology. Experience your movies, photos, and games smoothly and seamlessly with a suite of built-in visual enhancements—no extra hardware required.



| Processor | | Features | |
|--|--|--|---------|
| Processor manufacturer * | Intel | Commodity Classification | |
| Processor generation | 4th gen Intel® Core™ i3 | Automated Tracking System (CCATS) | G077159 |
| Processor model * | i3-4150 | Processor special features | |
| Processor base frequency * | 3.5 GHz | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor family * | Intel® Core™ i3 | Intel® Turbo Boost Technology | ✗ |
| Processor cores * | 2 | Intel® Quick Sync Video Technology | ✓ |
| Processor socket * | LGA 1150 (Socket H3) | Intel® InTru™ 3D Technology | ✓ |
| Component for | PC | Intel® Wireless Display (Intel® WiDi) | ✓ |
| Processor lithography * | 22 nm | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Processor series | Intel Core i3-4100 Desktop series | Intel® Smart Cache | ✓ |
| Processor threads | 4 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| System bus rate | 5 GT/s | Enhanced Intel SpeedStep Technology | ✓ |
| Processor operating modes * | 64-bit | Intel Trusted Execution Technology | ✗ |
| Processor cache | 3 MB | Intel® Transactional Synchronization Extensions | ✗ |
| Processor cache type | Smart Cache | Intel Enhanced Halt State | ✓ |
| Thermal Design Power (TDP) | 54 W | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Box * | ✓ | Intel TSX-NI | ✗ |
| Cooler included * | ✓ | Intel Stable Image Platform Program (SIPP) | ✗ |
| Generation | 4th Generation | Intel 64 | ✓ |
| Compatible chipsets | Intel® B85, Intel® H81, Intel® H87, Intel® Q85, Intel® Q87, Intel® Z87 | Intel Small Business Advantage (SBA) version | 1.00 |
| Stepping | C0 | Intel Stable Image Platform Program (SIPP) version | 0.00 |
| Bus type | DMI | Intel Virtualization Technology (VT-x) | ✓ |
| Memory bandwidth supported by processor (max) | 25.6 GB/s | Intel Virtualization Technology for Directed I/O (VT-d) | ✗ |
| Processor codename | Haswell | Intel TSX-NI version | 0.00 |
| Processor code | SR1PJ | Conflict-Free processor | ✓ |
| Processor ARK ID | 77486 | Intel® vPro™ Platform Eligibility | ✗ |
| Memory | | Operational conditions | |
| Maximum internal memory supported by processor | 32 GB | Tcase | 72 °C |
| Memory types supported by processor | DDR3-SDRAM, DDR3L-SDRAM | | |
| Memory clock speeds supported by processor | 1333,1600 MHz | | |
| Memory channels * | Dual-channel | | |
| ECC | ✓ | | |
| Graphics | | | |
| On-board graphics card * | ✓ | | |

| Graphics | | Technical details | |
|---|---|---|---|
| On-board graphics card model * | Intel® HD Graphics 4400 | Born on date | Q2'14 |
| Maximum on-board graphics card memory | 2 GB | Bus bandwidth | 5 |
| On-board graphics card outputs supported | Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI, VGA (D-Sub) | Bus type units | GT/s |
| On-board graphics card base frequency | 350 MHz | Graphics max dynamic frequency | 1.15 GHz |
| On-board graphics card dynamic frequency (max) | 1150 MHz | Launch date | Q2'14 |
| Number of displays supported (on-board graphics) | 3 | Maximum resolution & refresh rate (DisplayPort) | 3840x2160@60Hz |
| On-board graphics card DirectX version | 11.1 | Maximum resolution & refresh rate (HDMI) | 4096x2304@24Hz |
| On-board graphics card OpenGL version | 4.3 | Maximum resolution & refresh rate (Integrated Flat Panel) | 3840x2160@60Hz |
| On-board graphics card maximum resolution (DisplayPort) | 3840 x 2160 pixels | Maximum resolution & refresh rate (VGA) | 1920x1200@60Hz |
| On-board graphics card maximum resolution (eDP - Integrated Flat Panel) | 3840 x 2160 pixels | Number of graphics cores | 12 |
| On-board graphics card maximum resolution (HDMI) | 4096 x 2304 pixels | OpenGL support | ✓ |
| On-board graphics card maximum resolution (VGA) | 1920 x 1200 pixels | Processor cache | 3072 KB |
| On-board graphics card refresh rate at maximum resolution (DisplayPort) | 60 Hz | Product name | Intel Core i3-4150 (3M Cache, 3.50 GHz) |
| On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel) | 60 Hz | Product type | Processor |
| On-board graphics card refresh rate at maximum resolution (HDMI) | 24 Hz | Status | Discontinued |
| On-board graphics card refresh rate at maximum resolution (VGA) | 60 Hz | Video compression formats | ✓ |
| On-board graphics card ID | 0x41E | Maximum graphics card memory | 1740 MB |
| | | Maximum memory | 32 GB |
| | | Processor brand name | Intel Core i3 Intel Core i3 Processor |
| | | Supported memory types | DDR3-SDRAM, DDR3L-SDRAM |
| | | Last change | 63903513 |
| | | Product family | 4th Generation Intel Core i3 Processors |
| | | Bus speed | 5 GT/s |
| | | Maximum graphics card memory | 2 GB |
| | | Processor ID | 0x41E |
| Features | | Logistics data | |
| Execute Disable Bit | ✓ | Harmonized System (HS) code | 8542310001 |
| Idle States | ✓ | Packaging data | |
| Thermal Monitoring Technologies | ✓ | Package width | 70 mm |
| Market segment | Desktop | Package depth | 116 mm |
| Maximum number of PCI Express lanes | 16 | Package height | 101 mm |
| PCI Express slots version | 3.0 | Package weight | 338 g |
| PCI Express configurations | 1x16, 2x8, 1x8+2x4 | Package type | Retail box |
| Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0 | Weight & dimensions | |
| Bandwidth | 5 MB/s | Processor package size | 37.5 x 37.5 mm |
| Scalability | 1S | Other features | |
| CPU configuration (max) | 1 | Intel® Virtualization Technology (Intel® VT) | VT-x |
| Embedded options available | ✗ | Maximum internal memory | 32 GB |
| Graphics & IMC lithography | 22 nm | Maximum internal memory | 32768 MB |
| Thermal solution specification | PCG 2013C | Graphics output | eDP/DP/HDMI/DVI/VGA |
| Export Control Classification Number (ECCN) | 5A992C | Cache memory | 3 MB |
| | | Video decoding | ✓ |



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