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# Intel® Core™ i3-8350K Processor

8M Cache, 4.00 GHz

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## Specifications

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### Essentials

⬇ Export specifications

| | |
|---|---|
| Product Collection | 8th Generation Intel® Core™ i3 Processors |
| Code Name | Products formerly Coffee Lake |
| Vertical Segment | Desktop |
| Processor Number | i3-8350K |
| Status | Launched |
| Launch Date ? | Q4'17 |
| Lithography ? | 14 nm |
| Included Items | Please note: The boxed product does not include a fan or heat sink |
| Recommended Customer Price ? | - |

### Performance

| | |
|---|---|
| # of Cores ? | 4 |
| # of Threads ? | 4 |
| Processor Base Frequency ? | 4.00 GHz |
| Cache ? | 8 MB SmartCache |
| Bus Speed ? | 8 GT/s DMI3 |
| TDP ? | 91 W |

### Supplemental Information

| | |
|---|---|
| Embedded Options Available ? | No |
| Datasheet | View now |

### Memory Specifications

| | |
|---|---|
| Max Memory Size (dependent on memory type) ? | 64 GB |
| Memory Types ? | DDR4-2400 |
| Max # of Memory Channels ? | 2 |
| Max Memory Bandwidth ? | 37.5 GB/s |
| ECC Memory Supported ‡ ? | Yes |

## Processor Graphics

| | |
|---|---|
| Processor Graphics ‡ ? | Intel® UHD Graphics 630 |
| Graphics Base Frequency ? | 350 MHz |
| Graphics Max Dynamic Frequency ? | 1.15 GHz |
| Graphics Video Max Memory ? | 64 GB |
| 4K Support ? | Yes, at 60Hz |
| Max Resolution (HDMI 1.4)‡ ? | 4096x2304@24Hz |
| Max Resolution (DP)‡ ? | 4096x2304@60Hz |
| Max Resolution (eDP - Integrated Flat Panel)‡ ? | 4096x2304@60Hz |
| DirectX* Support ? | 12 |
| OpenGL* Support ? | 4.5 |
| Intel® Quick Sync Video ? | Yes |
| Intel® InTru™ 3D Technology ? | Yes |
| Intel® Clear Video HD Technology ? | Yes |
| Intel® Clear Video Technology ? | Yes |
| # of Displays Supported ‡ | 3 |
| Device ID | 0x3E91 |

## Expansion Options

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

## Package Specifications

| | |
|---|---|
| Sockets Supported ? | FCLGA1151 |
| Max CPU Configuration | 1 |
| Thermal Solution Specification ? | PCG 2015D (130W) |
| $T_{JUNCTION}$ ? | 100°C |
| Package Size | 37.5mm x 37.5mm |
| Low Halogen Options Available | No |

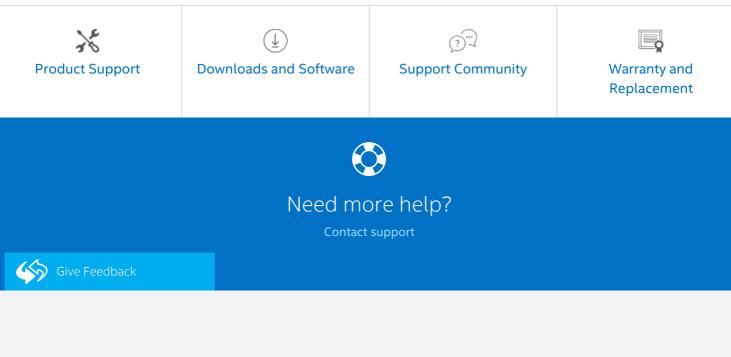## Advanced Technologies

| | |
|---|---|
| Intel® Optane™ Memory Supported ‡ ? | Yes |
| Intel® Turbo Boost Technology ‡ ? | No |
| Intel® vPro™ Platform Eligibility ‡ ? | No |
| Intel® Hyper-Threading Technology ‡ ? | No |
| Intel® Virtualization Technology (VT-x) ‡ ? | Yes |
| Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ? | Yes |

| | |
|---|---|
| Intel® VT-x with Extended Page Tables (EPT) ‡ ? | Yes |
| Intel® TSX-NI ? | No |
| Intel® 64 ‡ ? | Yes |
| Instruction Set ? | 64-bit |
| Instruction Set Extensions ? | Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2 |
| Idle States ? | Yes |
| Enhanced Intel SpeedStep® Technology ? | Yes |
| Thermal Monitoring Technologies ? | Yes |
| Intel® Identity Protection Technology ‡ ? | Yes |
| Intel® Stable Image Platform Program (SIPP) ? | No |

## Security & Reliability

| | |
|---|---|
| Intel® AES New Instructions ? | Yes |
| Secure Key ? | Yes |
| Intel® Software Guard Extensions (Intel® SGX) ? | Yes with Intel® ME |
| Intel® Memory Protection Extensions (Intel® MPX) ? | Yes |
| Intel® OS Guard | Yes |
| Intel® Trusted Execution Technology ‡ ? | No |
| Execute Disable Bit ‡ ? | Yes |
| Intel® Boot Guard ? | Yes |

## More support options for Intel® Core™ i3-8350K Processor (8M Cache, 4.00 GHz)

| Product Support | Downloads and Software | Support Community | Warranty and Replacement |
|---|---|---|---|

## Need more help?

Contact support

Give Feedback

Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Check http://ipt.intel.com/ for systems that support Intel® Identity Protection Technology (Intel® IPT).

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

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