intel. ENGLISH Search Intel.com

Intel® Core™ 7 processor 150U

Intel® Core™ 7 processor 150U intel core: 12M Cache, up to 5.40 GHz Add To Compare

Intel® Processors

Intel® Products

Ordering & Compliance Specifications Downloads Support

Intel® Core™ Processors

Download Specifications ↓ Essentials Essentials **CPU Specifications** Product Collection Intel® Core™ processors (Series 1) Supplemental Information Products formerly Raptor Lake Code Name Memory Specifications Vertical Segment Mobile **GPU Specifications** Processor Number ③ 150U **Expansion Options** Lithography 3 Intel 7 Package Specifications

CPU Specifications Advanced Technologies Total Cores 🔞

Security & Reliability

# of Performance-cores # of Efficient-cores

Total Threads 🔞

Max Turbo Frequency 3 Performance-core Max Turbo Frequency 3 Efficient-core Max Turbo Frequency 3

Performance-core Base Frequency 3 Efficient-core Base Frequency ③ Cache 3

Maximum Turbo Power <? Minimum Assured Power Intel® Deep Learning Boost (Intel® DL Boost) on CPU ②

Processor Base Power <?

Supplemental Information Marketing Status Launch Date 3 Embedded Options Available ③

Product Tuning (Embedded Uses) 3

Max Memory Size (dependent on memory

Memory Specifications

Max # of Memory Channels 3

ECC Memory Supported \* 3

**GPU** Specifications

Memory Types 3

type) ③

Graphics Max Dynamic Frequency 3 Graphics Output 3 Execution Units 3

Max Resolution (HDMI)<sup>†</sup> ③

Max Resolution (DP)‡ ?

GPU Name<sup>‡</sup> ③

Max Resolution (eDP - Integrated Flat Panel)‡ ③ DirectX\* Support ③ OpenGL\* Support ③ OpenCL\* Support 3 Multi-Format Codec Engines 3

Intel® Quick Sync Video ③

# of Displays Supported <sup>†</sup> Device ID Expansion Options Intel® Thunderbolt™ 4 ② Microprocessor PCIe Revision ③

Max # of PCI Express Lanes 3 Package Specifications Sockets Supported ? Max CPU Configuration

Chipset / PCH PCIe Revision ③

Max Operating Temperature 3

Intel® Gaussian & Neural Accelerator 3

Package Size Advanced Technologies Intel® Volume Management Device (VMD) 3

T<sub>JUNCTION</sub> ③

Intel® Smart Sound Technology ③ Intel® Wake on Voice <? Intel® High Definition Audio ③ MIPI SoundWire\* 3 Intel® Adaptix™ Technology ③

Intel® Thread Director ②

Intel® Image Processing Unit ③

Intel® Speed Shift Technology 3

Intel® Hyper-Threading Technology \* 3 Instruction Set 3 Instruction Set Extensions ③ Thermal Monitoring Technologies 3 Intel® Flex Memory Access 3

Security & Reliability Intel vPro® Eligibility \* 3 Intel® Hardware Shield Eligibility \* 3

Technology 3

Intel® AES New Instructions <? Secure Key 3 Intel® Trusted Execution Technology \* 3 Execute Disable Bit \* 3 Intel® OS Guard

Intel® Threat Detection Technology (TDT)

Intel® Standard Manageability (ISM) \* 3

Intel® Control-Flow Enforcement

Intel® Boot Guard 🏵 Mode-based Execute Control (MBEC) 3 Intel® Virtualization Technology (VT-x) \* 3 Intel® Virtualization Technology for Directed

I/O (VT-d) \* 3 Intel® VT-x with Extended Page Tables (EPT)

‡ 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

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Intel classifications are for general, educational and planning purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction. Refer to Datasheet for formal definitions of product properties and features.

Intel® Arc™ graphics only available on select V-Series Intel® Core™ Ultra processor-powered systems with qualifying system thermal design or H-series Intel® Core™ Ultra processor-powered systems with at least 16GB of system memory in a dual-channel configuration. OEM enablement required. Other Intel® Core™ Ultra processor-powered system configurations feature Intel® Graphics. Check with OEM or retailer for system configuration details.

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

http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

Intel® Iris® Xe Graphics only: to use the Intel® Iris® Xe brand, the system must be populated with 128-bit (dual channel) memory. Otherwise, use the Intel® UHD brand. 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. 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.

Company Overview Contact Intel Newsroom Investors Careers Corporate Responsibility Inclusion Public Policy

intel

Downloaded from Arrow.com.

Supply Chain Transparency © Intel Corporation Terms of Use \*Trademarks Cookies Privacy

Recycling Your Privacy Choices Notice at Collection Intel technologies may require enabled hardware, software or service activation. // No product or component can be absolutely secure. // Your costs and results may vary. // Performance varies by use, configuration, and other factors. Learn more at intel.com/performanceindex. // See our complete legal Notices and Disclaimers. // Intel is committed to respecting human rights and avoiding causing or contributing to adverse impacts on human rights. See Intel's Global Human Rights Principles. Intel's products and software are intended only to be used in applications

10

2 8 12 5.4 GHz 5.4 GHz

4 GHz 1.8 GHz 1.2 GHz 12 MB Intel® Smart Cache 15 W

12 W Yes

55 W

No

Yes

Launched Q1'24

96 GB Up to DDR5 5200 MT/s Up to DDR4 3200 MT/s Up to LPDDR5/x 6400 MT/s Up to LPDDR4x 4267 MT/s

1.3 GHz eDP 1.4b, DP 1.4a, HDMI 2.1

Intel® Graphics

96

3.0

2

Yes

4

4096 x 2304 @ 120Hz 12.1 4.6

4096 x 2304 @ 60Hz

7680 x 4320 @ 60Hz

0xA7AC Yes

Gen 4

Gen 3

20

FCBGA1744 1

100°C

100 °C

Yes 3.0

50mm x25mm

Yes Yes 1.2 Yes Yes Yes

Yes

6.0

Yes

Yes Yes

Intel vPro® Essentials

64-bit

Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2

Yes Yes Yes

Yes

Yes

Yes Yes Yes Yes Yes

Yes Yes

Yes Yes

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.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See

that do not cause or contribute to adverse impacts on human rights.