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|-----------------------------------------------------|-------------------------------------------|
| Product Collection                                  | Intel® Core™ i5 Processors (14th gen)     |
| Code Name                                           | Products formerly Raptor Lake             |
| Vertical Segment                                    | Desktop                                   |
| Processor Number                                    | i5-14600KF                                |
| Lithography                                         | Intel 7                                   |
| Total Cores                                         | 14                                        |
| # of Performance-cores                              | 6                                         |
| # of Efficient-cores                                | 8                                         |
| Total Threads                                       | 20                                        |
| Max Turbo Frequency                                 | 5.3 GHz                                   |
| Performance-core Max Turbo Frequency                | 5.3 GHz                                   |
| Efficient-core Max Turbo Frequency                  | 4 GHz                                     |
| Performance-core Base Frequency                     | 3.5 GHz                                   |
| Efficient-core Base Frequency                       | 2.6 GHz                                   |
| Cache                                               | 24 MB Intel® Smart Cache                  |
| Total L2 Cache                                      | 20 MB                                     |
| Processor Base Power                                | 125 W                                     |
| Maximum Turbo Power                                 | 181 W                                     |
| Marketing Status                                    | Launched                                  |
| Launch Date                                         | Q4'23                                     |
| Embedded Options Available                          | No                                        |
| Use Conditions                                      | PC/Client/Tablet                          |
| Memory Specifications                               |                                           |
| Max Memory Size (dependent on memory type)          | 192 GB                                    |
| Memory Types                                        | Up to DDR5 5600 MT/s Up to DDR4 3200 MT/s |
| Max # of Memory Channels                            | 2                                         |
| Max Memory Bandwidth                                | 89.6 GB/s                                 |
| Direct Media Interface (DMI) Revision               | 4                                         |
| Max # of DMI Lanes                                  | 8                                         |
| Scalability                                         | 1S Only                                   |
| PCI Express Revision                                | 5.0 and 4.0                               |
| PCI Express Configurations ‡                        | Up to 1x16+4   2x8+4                      |
| Max # of PCI Express Lanes                          | 20                                        |
| Package Specifications                              |                                           |
| Sockets Supported                                   | FCLGA1700                                 |
| Max CPU Configuration                               | 1                                         |
| Thermal Solution Specification                      | PCG 2020A                                 |
| TJUNCTION                                           | 100°C                                     |
| Package Size                                        | 45.0 mm x 37.5 mm                         |
| Max Operating Temperature                           | 100 °C                                    |
| Intel® Gaussian & Neural Accelerator                | 3                                         |
| Intel® Thread Director                              | Yes                                       |
| Intel® Deep Learning Boost (Intel® DL Boost) on CPU | Yes                                       |
| Intel® Speed Shift Technology                       | Yes                                       |
| Intel® Turbo Boost Technology ‡                     | 2                                         |
| Intel® Hyper-Threading Technology ‡                 | Yes                                       |
| 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® Volume Management Device (VMD)                      | Yes                                         |
| Intel® Standard Manageability (ISM) ‡                      | Yes                                         |
| Intel® Secure Key                                          | Yes                                         |
| Intel® Control-Flow Enforcement Technology                 | Yes                                         |
| Intel® AES New Instructions                                | Yes                                         |
| Intel® Secure Key                                          | Yes                                         |
| Intel® OS Guard                                            | Yes                                         |
| Execute Disable Bit ‡                                      | Yes                                         |
| Intel® Boot Guard                                          | Yes                                         |
| Mode-based Execute Control (MBEC)                          | Yes                                         |
| 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                                         |