**ComX Computers**
Product Specification Sheet

# BX8071514700F

Intel 14th Gen Raptor Lake Core i7-14700F 20 Core up to 5.4GHz 33MB Smart Cache LGA1700 Processor

## Product Overview

Intel 14th Gen Raptor Lake Core i7-14700F 20 Core up to 5.4GHz 33MB Smart Cache LGA1700 Processor, Intel 7 Lithography, 8 Performance-cores, 12 Efficient-cores, 28 total threads, 33 MB Intel Smart Cache, 28 MB total L2 Cache, 65 W Processor base Power, 219 W Maximum Turbo Power, Intel Laminar RH1 included, No OnBoard Graphics




## Specifications

**Specifications:**

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|---|---|
| **Specifications** | |
| **Product Code** | BX8071514700F |
| **Essentials** | |
| **Product Collection** | Intel Core i7 Processors (14th gen) |
| **Code Name** | Products formerly Raptor Lake |
| **Vertical Segment** | Desktop |
| **Processor Number** | i7-14700F |
| **Lithography** | Intel 7 |
| **Use Conditions** | PC/Client/Tablet |
| **CPU Specifications** | |
| **Total Cores** | 20 |
| **# of Performance-cores** | 8 |
| **# of Efficient-cores** | 12 |
| **Total Threads** | 28 |

| | |
|---|---|
| **Max Turbo Frequency** | 5.4 GHz |
| **Intel Turbo Boost Max Technology 3.0 Frequency** | 5.4 GHz |
| **Performance-core Max Turbo Frequency** | 5.3 GHz |
| **Efficient-core Max Turbo Frequency** | 4.2 GHz |
| **Performance-core Base Frequency** | 2.1 GHz |
| **Efficient-core Base Frequency** | 1.5 GHz |
| **Cache** | 33 MB Intel Smart Cache |
| **Total L2 Cache** | 28 MB |
| **Processor Base Power** | 65 W |
| **Maximum Turbo Power** | 219 W |
| **Supplemental Information** | |
| **Marketing Status** | Launched |
| **Launch Date** | Q1'24 |
| **Embedded Options Available** | No |
| **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 |
| **Expansion Options** | |
| **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 2020C |
| **TJUNCTION** | 100 degreesC |
| **Package Size** | 45.0 mm x 37.5 mm |
| **Advanced Technologies** | |

| | |
|---|---|
| **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 Max Technology 3.0** | 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 |
| **Security & Reliability** | |
| **Intel Standard Manageability (ISM)** | Yes |
| **Intel Control-Flow Enforcement Technology** | Yes |
| **Intel AES New Instructions** | Yes |
| **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 |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**
**https://www.comx-computers.co.za/BX8071514700F-Intel-14th-Gen-Raptor-Lake-Core-i7-14700F-20-Core-up-to-5-4GHz-33MB-p-293447.php**

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