ComX Computers
Product Specification Sheet

CP-iA14600KF

Intel Core i5-14600KF LGA 1700 up to 5.3GHz 14 Cores (6P+8E) 24MB Smart Cache 14th Gen Processor

Product Overview

Intel Core i5-14600KF LGA 1700 up to 5.3GHz 14 Cores (6P+8E) 24MB Smart Cache 14th Gen Processor, Raptor Lake, Intel 7 Lithography, 6 Performance-cores, 8 Efficient-cores, 20 total threads, 24 MB Intel Smart Cache Cache, 20 MB total L2 Cache, 125 W Processor base Power, 181 W Maximum Turbo Power, No Graphics built in, BX8071514600KF



Specifications

Specifications:

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Specifications	
Product Code	CP-iA14600KF
Essentials	
Product Collection	Intel Core i5 Processors (14th gen)
Code Name	Products formerly RAPTOR LAKE
Vertical Segment	Desktop
Processor Number	i5-14600KF
Lithography	Intel 7
Use Conditions	PC/Client/Tablet
CPU Specifications	
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
Supplemental Information	
Marketing Status	Launched
Launch Date	Q4'23
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 2020A
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 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.co.za/CP-iA14600KF-Intel-Core-i5-14600KF-LGA-1700-up-to-5-3GHz-14-Cores-6P-8E-24MB-Smart-p-289570.php

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