

Intel Intel Core i3 13100(BX8071513100)

Intel Core i3 13100 - 3.4 GHz - 4 cores - 8 threads - 12 MB cache - FCLGA1700 Socket - Box

The Intel Core i3 processor is the perfect entry point for a fast, responsive PC experience. Do not let too many open applications slow you and your PC down. Get smart performance now.

Product Features

Intel smart cache

Intel smart cache is shared cache dynamically allocated to each processor core, based on workload. This efficient, dual-core-optimized implementation increases the probability that each core can access data from the fast cache, significantly reducing latency to frequently used data and improving performance.

Main Specifications

Product Description	Intel Core i3 13100 / 3.4 GHz processor - Box
Product Type	Processor
Processor Type	Intel Core i3 13100 (13th Gen)
Number of Cores	Quad-Core / 8 threads
Cache	12 MB
Integrated Graphics	Intel UHD Graphics 730
Compatible Processor Socket	FCLGA1700 Socket
Processor Qty	1
Clock Speed	3.4 GHz
Max Turbo Speed	4.5 GHz
Manufacturing Process	10 nm
Features	Intel Gaussian and Neural Accelerator 3.0, Intel Thread Director, Intel Speed Shift Technology, Intel Turbo Boost Max Technology 3.0, Intel Turbo Boost Technology 2.0, Hyper-Threading Technology, Intel 64 Technology, Instruction Set 64-bit, streaming SIMD extensions 4.1, streaming SIMD extensions 4.2, Intel Advanced Vector Extensions 2 (AVX2.0), Idle States, Enhanced SpeedStep technology, Thermal Monitoring Technologies, Intel Volume Management Device (VMD), Intel Threat Detection Technology (TDT), Intel Standard Manageability (ISM), Intel Control-Flow Enforcement Technology, Intel AES New Instructions (AES-NI), Intel Secure Key, Intel OS Guard, Execute Disable Bit capability, Intel Boot Guard, Mode-based Execute Control (MBEC), Intel Virtualization Technology, Intel Virtualization Technology for Directed I/O (VT-d), Intel VT-x with Extended Page Tables (EPT), Intel Deep Learning Boost (DL Boost)
Manufacturer Warranty	3-year warranty

Extended Specification

General

Product Type	Processor
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Manufacturer Warranty

Service & Support	Limited warranty - 3 years
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Processor

Type / Form Factor	Intel Core i3 13100 (13th Gen)
Number of Cores	Quad-Core
Number of Threads	8 threads
Cache	12 MB

Cache Memory Details	Smart Cache - 12 MB L2 - 5 MB
Processor Qty	1
Clock Speed	3.4 GHz
Max Turbo Speed	4.5 GHz
Compatible Processor Socket	FCLGA1700 Socket
Manufacturing Process	10 nm
Thermal Design Power	89 W
Thermal Specification	100 °C
PCI Express Revision	4.0/5.0
PCI Express Configurations	1x16+4, 2x8+4
PCI Express Lanes Qty	20
Architecture Features	Intel Gaussian and Neural Accelerator 3.0, Intel Thread Director, Intel Speed Shift Technology, Intel Turbo Boost Max Technology 3.0, Intel Turbo Boost Technology 2.0, Hyper-Threading Technology, Intel 64 Technology, Instruction Set 64-bit, streaming SIMD extensions 4.1, streaming SIMD extensions 4.2, Intel Advanced Vector Extensions 2 (AVX2.0), Idle States, Enhanced SpeedStep technology, Thermal Monitoring Technologies, Intel Volume Management Device (VMD), Intel Threat Detection Technology (TDT), Intel Standard Manageability (ISM), Intel Control-Flow Enforcement Technology, Intel AES New Instructions (AES-NI), Intel Secure Key, Intel OS Guard, Execute Disable Bit capability, Intel Boot Guard, Mode-based Execute Control (MBEC), Intel Virtualization Technology, Intel Virtualization Technology for Directed I/O (VT-d), Intel VT-x with Extended Page Tables (EPT), Intel Deep Learning Boost (DL Boost)

Miscellaneous

Package Type	Intel Boxed
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Integrated Graphics

Type	Intel UHD Graphics 730
Base Frequency	300 MHz
Max Dynamic Frequency	1.5 GHz
Max Supported Resolution	4096x2160@60Hz (HDMI), 7680x4320@60Hz (DP), 5120x3200@120Hz (eDP)
Features	Intel Quick Sync Video, Intel Clear Video HD Technology, Quad Display Capable

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet