

Intel Core i3-13100 processor 12 MB Smart Cache Box

Brand: Intel Product family: Core Product code: BX8071513100

Product name: i3-13100

Boxed Intel® Core™ i3-13100 Processor (12M Cache, up to 4.50 GHz) FC-LGA16A Intel Core i3-13100. Processor family: Intel® Core™ i3, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 192 GB, Memory types supported by processor: DDR4-SDRAM, DDR5-SDRAM. On-board graphics card model: Intel UHD Graphics 730, On-board graphics card outputs supported: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-board graphics card base frequency: 300 MHz. Market segment: Desktop, Use conditions: PC/Client/Tablet, PCI Express slots version: 5.0, 4.0. Package type: Retail box







| Processor | | Features | |
|---|--|--|-------------------------|
| Processor manufacturer * | Intel | Use conditions | PC/Client/Tablet |
| Processor generation | Intel Core i3-13xxx | Maximum number of PCI Express | 20 |
| Processor model * | i3-13100 | lanes | |
| Processor family * | Intel® Core™ i3 | PCI Express slots version | 5.0, 4.0 |
| Processor cores * | 4 | PCI Express configurations | 1x16+1x4, 2x8+1x4 |
| Processor socket * | LGA 1700 | Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0 |
| Processor threads | 8 | Scalability | 15 |
| Processor operating modes * | 64-bit | CPU configuration (max) | 1 |
| Performance cores | 4 | Embedded options available | ✓ |
| Processor boost frequency | 4.5 GHz | Direct Media Interface (DMI) Revision | 4.0 |
| Performance-core boost frequency | 4.5 GHz | Export Control Classification | |
| Performance-core base frequency | 3.4 GHz | Number (ECCN) | 5A992C |
| Processor cache | 12 MB | Commodity Classification | |
| Processor cache type | Smart Cache | Automated Tracking System | 740.17B1 |
| Box * | ✓ | (CCATS) | |
| Cooler included * | ✓ | Processor special features | |
| Processor base power | 60 W | Intel® Hyper Threading Technology | J |
| Maximum turbo power | 89 W | (Intel® HT Technology) | • |
| Bus type | DMI4 | Intel® Turbo Boost Technology | 2.0 |
| Maximum number of DMI lanes | 8 | Intel® Quick Sync Video Technology | ✓ |
| Memory bandwidth supported by processor (max) | 76.8 GB/s | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Processor codename | Raptor Lake | Intel® AES New Instructions (Intel® | 1 |
| Processor ARK ID | 230575 | AES-NI) | • |
| Memory | | Enhanced Intel SpeedStep Technology | ✓ |
| Maximum internal memory | 192 GB | Intel® Speed Shift Technology | ✓ |
| supported by processor Memory types supported by | DDR4-SDRAM, DDR5-SDRAM | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0 | ✓ |
| processor Memory channels * | Dual-channel Dual-channel | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| Non-ECC | ✓ | Intel® Thread Director | × |
| Memory bandwidth (max) | 76.8 GB/s | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Graphics | | Intel® Secure Key | ✓ |
| On-board graphics card * | V | Intel® OS Guard | ✓ |
| Discrete graphics card * | × | Intel 64 | ✓ |
| On-board graphics card model * | Intel UHD Graphics 730 | Intel Virtualization Technology (VT- | 1 |
| On-board graphics card outputs supported | Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1 | x) Intel Virtualization Technology for | · |
| On-board graphics card base frequency | 300 MHz | Directed I/O (VT-d) Intel Turbo Boost Max Technology | |
| On-board graphics card dynamic frequency (max) | 1500 MHz | 3.0 Intel® Boot Guard | × |
| Number of displays supported (on- | 4 | Intel® Deep Learning Boost (Intel® | |
| board graphics) | • | DL Boost) | ✓ |

| Graphics | | Processor special features | |
|---|---------------------|--|-----------------------------|
| On-board graphics card DirectX version | 12.0 | Intel® Volume Management Device (VMD) | √ |
| On-board graphics card OpenGL version | 4.5 | Mode-based Execute Control (MBE) Intel® Standard Manageability (ISM) | <i>1 1</i> |
| On-board graphics card maximum resolution (DisplayPort) | 7680 x 4320 pixels | Intel® Threat Detection Technology (TDT) | ✓ |
| On-board graphics card maximum resolution (eDP - Integrated Flat Panel) | 5120 x 3200 pixels | Operational conditions | |
| | | Tjunction | 100 °C |
| On-board graphics card maximum resolution (HDMI) | 4096 x 2160 pixels | Technical details | |
| On-board graphics card refresh rate at maximum resolution (DisplayPort) | 60 Hz | OpenCL version Launch date | 3.0 Q1'23 |
| On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel) | 120 Hz | Status | Launched |
| | | Logistics data | |
| On-board graphics card refresh rate | | Harmonized System (HS) code | 8542310001 |
| at maximum resolution (HDMI) | 60 Hz | Packaging data | |
| On-board graphics card ID | 0x4692 | Package type | Retail box |
| Discrete graphics card model * Number of execution units | Not available 24 | Weight & dimensions | |
| Multi-Format Codec Engines | 1 | Processor package size | 45 x 37.5 mm |
| Features | | Other features | |
| Execute Disable Bit | 1 | L2 cache | 5120 KB |
| Idle States | 1 | Maximum internal memory | 192 GB |
| Thermal Monitoring Technologies | ✓ | Graphics output | eDP 1.4b, DP 1.4a, HDMI 2.1 |
| Market segment | Desktop | | |







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