

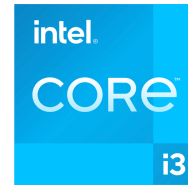
Intel Core i3-12100 Prozessor 12 MB Smart Cache

Marke : Intel

Produktfamilie: Core

Artikel-Code:
CM8071504651012

Produktname : i3-12100



Intel® Core™ i3-12100 Prozessor (12 MB Cache, bis zu 4,30 GHz)

Intel Core i3-12100. Prozessorfamilie: Intel® Core™ i3, Prozessorsockel: LGA 1700, Prozessorhersteller: Intel. Speicherkanäle: Zweikanalig, Maximaler interner Speicher, vom Prozessor unterstützt: 128 GB, Speichertypen, vom Prozessor unterstützt: DDR4-SDRAM, DDR5-SDRAM. Eingebautes Grafikkartenmodell: Intel UHD Graphics 730, On-Board Grafikkadpter unterstützte Ausgänge: Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1, On-Board Grafikkadpter Basisfrequenz: 300 MHz. Marktsegment: Desktop, Nutzungsbedingungen: PC/Client/Tablet, PCI-Express-Slots-Version: 5.0, 4.0. Verpackungsart: Einzelhandels-Box



| Prozessor | | Merkmale | |
|---|---|--|-------------------------|
| Prozessorhersteller * | Intel | Maximale Anzahl der PCI-Express-Lanes | 20 |
| Prozessorgeneration | Intel® Core™ i3 Prozessoren der 12. Generation | PCI-Express-Slots-Version | 5.0, 4.0 |
| Prozessor * | i3-12100 | PCI Express Konfigurationen | 1x16+1x4, 2x8+1x4 |
| Prozessorfamilie * | Intel® Core™ i3 | Unterstützte Befehlssätze | SSE4.1, SSE4.2, AVX 2.0 |
| Anzahl Prozessorkerne * | 4 | Skalierbarkeit | 1S |
| Prozessorsockel * | LGA 1700 | CPU Konfiguration (max) | 1 |
| Prozessor-Threads | 8 | Eingebettete Optionen verfügbar | ✗ |
| Prozessorbetriebsmodi * | 64-Bit | Direkte Medienschnittstelle (DMI) Revision | 4.0 |
| Leistungskerne | 4 | Exportkontroll-Klassifizierungsnummer (ECCN) | 5A992CN3 |
| Prozessor Boost-Frequenz | 4,3 GHz | Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS) | G167599 |
| Leistung Kern-Boost-Frequenz | 4,3 GHz | | |
| Leistung Basisfrequenz des Kerns | 3,3 GHz | | |
| Prozessor-Cache | 12 MB | | |
| Prozessor Cache Typ | Smart Cache | | |
| Box * | ✗ | | |
| Grundleistung des Prozessors | 60 W | | |
| Maximale Turboleistung | 89 W | | |
| Bus Typ | DMI4 | | |
| Maximale Anzahl DMI-Spuren | 8 | | |
| Durch den Prozessor (max) unterstützte Speicherbandbreite | 76,8 GB/s | | |
| Prozessor Codename | Alder Lake | | |
| ARK Prozessorerkennung | 134584 | | |
| Speicher | | Prozessor Besonderheiten | |
| Maximaler interner Speicher, vom Prozessor unterstützt | 128 GB | Intel® Hyper-Threading-Technik (Intel® HT Technology) | ✓ |
| Speichertypen, vom Prozessor unterstützt | DDR4-SDRAM, DDR5-SDRAM | Intel® Turbo-Boost-Technologie | 2.0 |
| Speicherkanäle * | Zweikanalig | Intel® Quick-Sync-Video-Technik | ✓ |
| Speicherbandbreite (max.) | 76,8 GB/s | Intel® Clear Video HD Technology für (Intel® CVT HD) | ✓ |
| Grafik | | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Eingebaute Grafikkadpter * | ✓ | Verbesserte Intel SpeedStep Technologie | ✓ |
| Separater Grafikkadpter * | ✗ | Intel® -Speed-Shift-Technologie | ✓ |
| Eingebautes Grafikkartenmodell * | Intel UHD Graphics 730 | Intel® Gaussian & Neural Accelerator (Intel® GNA) 3.0 | ✓ |
| On-Board Grafikkadpter unterstützte Ausgänge | Embedded DisplayPort (eDP) 1.4b, DisplayPort 1.4a, HDMI 2.1 | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| On-Board Grafikkadpter Basisfrequenz | 300 MHz | Intel® Thread Director | ✗ |
| Maximale dynamische Frequenz der On-Board Grafikkadpter | 1400 MHz | Intel® VT-x mit Extended Page Tables (EPT) | ✓ |
| Anzahl an unterstützen Displays (On-Board-Grafik) | 4 | Intel® Sicherer Schlüssel | ✓ |
| | | Intel® OS Guard | ✓ |
| | | Intel® 64 | ✓ |
| | | Intel® Virtualization Technologie (VT-X) | ✓ |
| | | Intel® Virtualisierungstechnik für direkte I/O (VT-d) | ✓ |
| | | Intel Turbo Boost Max Technology 3.0 | ✗ |
| | | Intel® Optane™ Memory-bereit | ✓ |
| | | Intel® Boot Guard | ✓ |

| Grafik | | Prozessor Besonderheiten | |
|--|-------------------|--|-----------------------------|
| On-Board Grafikkadaper DirectX Version | 12.0 | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| On-Board Grafikkadaper OpenGL Version | 4.5 | Intel® Volume Management Device (VMD) | ✓ |
| Maximale Auflösung des On-Board Grafikkadapters (DisplayPort) | 7680 x 4320 Pixel | Modusbasierte Execute Control (MBE) | ✓ |
| Maximale Auflösung des On-Board Grafikkadapters (eDP - integrierter Flachbildschirm) | 5120 x 3200 Pixel | Intel® Standard Manageability (ISM) | ✓ |
| Integrierter Grafik-Adapter maximale Auflösung (HDMI) | 4096 x 2160 Pixel | Intel® Threat Detection Technology (TDT) | ✓ |
| Bildwiederholffrequenz des On-Board Grafikkadapters bei maximaler Auflösung (DisplayPort) | 60 Hz | Betriebsbedingungen | |
| Bildwiederholffrequenz des On-Board Grafikkadapters bei maximaler Auflösung (eDP - integrierter Flachbildschirm) | 120 Hz | Tjunction | 100 °C |
| Bildwiederholffrequenz des On-Board Grafikkadapters bei maximaler Auflösung (HDMI) | 60 Hz | Technische Details | |
| On-Board Grafikkadaper Geräte-ID | 0x4692 | OpenCL-Version | 2.1 |
| Separates Grafikkartenmodell * | Nicht verfügbar | Startdatum | Q1'22 |
| Anzahl der Rechenwerke | 24 | Status | Launched |
| Multi-Format-Codec-Engines | 1 | Logistikdaten | |
| Merkmale | | Warentarifnummer (HS) | 85423119 |
| Execute Disable Bit | ✓ | Verpackungsdaten | |
| Leerlauf Zustände | ✓ | Verpackungsart | Einzelhandels-Box |
| Thermal-Überwachungstechnologien | ✓ | Gewicht und Abmessungen | |
| Marktsegment | Desktop | Prozessor-Paketgröße | 45 x 37.5 mm |
| Nutzungsbedingungen | PC/Client/Tablet | Sonstige Funktionen | |
| | | RAM-Speicher maximal | 128 GB |
| | | Grafischer Ausgang | eDP 1.4b, DP 1.4a, HDMI 2.1 |



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