

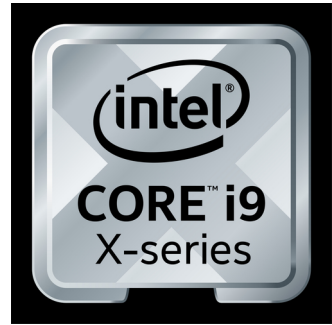
Intel Core i9-7940X processor 3.1 GHz 19.25 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CD8067303734701

Product name : i9-7940X



Intel® Core™ i9-7940X X-series Processor
(19.25M Cache, up to 4.30 GHz)

Intel Core i9-7940X. Processor family: Intel® Core™ i9 X-series, Processor socket: LGA 2066 (Socket R4), Processor manufacturer: Intel. Memory channels: Quad-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Desktop, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0, AVX-512, Scalability: 1S. Intel® Turbo Boost Max Technology 3.0 frequency: 4.4 GHz. Package width: 44 mm, Package depth: 116 mm, Package height: 101 mm



| Processor | | Processor special features | |
|------------------------------------------------|--------------------------|----------------------------------------------------------|--------------|
| Processor manufacturer * | Intel | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor generation | 7th gen Intel® Core™ i9 | Intel® Turbo Boost Technology | 2.0 |
| Processor model * | i9-7940X | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor base frequency * | 3.1 GHz | Enhanced Intel SpeedStep Technology | ✓ |
| Processor family * | Intel® Core™ i9 X-series | Intel® Turbo Boost Max Technology 3.0 frequency | 4.4 GHz |
| Processor cores * | 14 | Intel 64 | ✓ |
| Processor socket * | LGA 2066 (Socket R4) | Intel Virtualization Technology (VT-x) | ✓ |
| Component for | PC | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Processor series | Intel® Core™ X-series | Conflict-Free processor | ✓ |
| Processor threads | 28 | Intel Turbo Boost Max Technology 3.0 | ✓ |
| System bus rate | 8 GT/s | Intel® Optane™ Memory Ready | ✓ |
| Processor operating modes * | 64-bit | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Processor boost frequency | 4.3 GHz | Virtual Reality (VR) ready | ✓ |
| Processor cache | 19.25 MB | | |
| Processor cache type | Smart Cache | | |
| Thermal Design Power (TDP) | 165 W | | |
| Box * | ✗ | | |
| Cooler included * | ✗ | | |
| Generation | 7th Generation | | |
| Compatible chipsets | Intel® X299 | | |
| Bus type | DMI3 | | |
| Memory bandwidth supported by processor (max) | 85 GB/s | | |
| Processor codename | Skylake | | |
| Processor ARK ID | 126695 | | |
| Memory | | Operational conditions | |
| Maximum internal memory supported by processor | 128 GB | Tjunction | 102 °C |
| Memory types supported by processor | DDR4-SDRAM | Technical details | |
| Memory clock speeds supported by processor | 2666 MHz | Bus bandwidth | 8 |
| | | Bus type units | GT/s |
| | | Launch date | Q3'17 |
| | | Processor cache | 19712 KB |
| | | Product type | Processor |
| | | Status | Discontinued |
| | | Maximum memory | 128 GB |

| Memory | | Technical details | |
|------------------------------------------------------------|----------------------------------|--------------------------------------------|---------------------------------------------------------|
| Memory voltage supported by processor | 1.2 V | Processor brand name | Intel Core i7 X-series Intel Core i7 X-series processor |
| Memory channels * | Quad-channel | Supported memory types | DDR4-SDRAM |
| ECC | ✗ | Last change | 63903513 |
| Features | | Product family | Intel Core Processors |
| Execute Disable Bit | ✓ | Intel Turbo Boost Max Technology frequency | 4400 MHz |
| Market segment | Desktop | Bus speed | 8 GT/s |
| Maximum number of PCI Express lanes | 44 | Logistics data | |
| PCI Express slots version | 3.0 | Harmonized System (HS) code | 8542310001 |
| Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0, AVX-512 | Packaging data | |
| Scalability | 1S | Package width | 44 mm |
| CPU configuration (max) | 1 | Package depth | 116 mm |
| Embedded options available | ✗ | Package height | 101 mm |
| Thermal solution specification | PCG 2017X | Package weight | 100 g |
| PCI Express CEM revision | 3.0 | Package type | Retail box |
| Export Control Classification Number (ECCN) | 5A992C | Weight & dimensions | |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Processor package size | 52.5 x 45 mm |
| | | Other features | |
| | | Maximum internal memory | 128 GB |
| | | Maximum internal memory | 131072 MB |



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