

Intel Xeon E-2124G processor 3.4 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80684E2124G

Product name : E-2124G

Intel® Xeon® E-2124G Processor

(8M Cache, up to 4.50 GHz)

Intel Xeon E-2124G. Processor family: Intel® Xeon®, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel UHD Graphics P630, Maximum on-board graphics card memory: 128 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI. Market segment: Server, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4.5 GHz



| Processor | | Features | |
|--|--|---|---------|
| Processor manufacturer * | Intel | Commodity Classification | |
| Processor model * | E-2124G | Automated Tracking System (CCATS) | G077159 |
| Processor base frequency * | 3.4 GHz | Processor special features | |
| Processor family * | Intel® Xeon® | Intel® Hyper Threading Technology (Intel® HT Technology) | ✗ |
| Processor cores * | 4 | Intel® Turbo Boost Technology | 2.0 |
| Processor socket * | LGA 1151 (Socket H4) | Intel® Quick Sync Video Technology | ✓ |
| Component for | Server/workstation | Intel® InTru™ 3D Technology | ✓ |
| Processor lithography * | 14 nm | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Processor threads | 4 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| System bus rate | 8 GT/s | Enhanced Intel SpeedStep Technology | ✓ |
| Processor operating modes * | 64-bit | Intel Trusted Execution Technology | ✓ |
| Processor boost frequency | 4.5 GHz | Intel® Memory Protection Extensions (Intel® MPX) | ✓ |
| Processor cache | 8 MB | Intel® Turbo Boost Technology 2.0 frequency | 4.5 GHz |
| Processor cache type | Smart Cache | Intel® Transactional Synchronization Extensions | ✓ |
| Thermal Design Power (TDP) | 71 W | Intel Enhanced Halt State | ✓ |
| Box * | ✓ | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✓ |
| Cooler included * | ✓ | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Bus type | DMI3 | Intel® Secure Key | ✓ |
| Memory bandwidth supported by processor (max) | 41.6 GB/s | Intel TSX-NI | ✓ |
| Processor codename | Coffee Lake | Intel® OS Guard | ✓ |
| Processor ARK ID | 134854 | Intel Clear Video Technology | ✓ |
| Memory | | Intel Software Guard Extensions (Intel SGX) | ✓ |
| Maximum internal memory supported by processor | 128 GB | Intel 64 | ✓ |
| Memory types supported by processor | DDR4-SDRAM | Intel Secure Key Technology version | 1.00 |
| Memory clock speeds supported by processor | 2666 MHz | Intel Virtualization Technology (VT-x) | ✓ |
| Memory channels * | Dual-channel | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| ECC | ✓ | Intel TSX-NI version | 1.00 |
| Graphics | | Intel® Optane™ Memory Ready | ✓ |
| On-board graphics card * | ✓ | Intel® Boot Guard | ✓ |
| Discrete graphics card * | ✗ | | |
| On-board graphics card model * | Intel UHD Graphics P630 | | |
| Maximum on-board graphics card memory | 128 GB | | |
| On-board graphics card outputs supported | Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI | | |
| On-board graphics card base frequency | 350 MHz | | |

| Graphics | | Processor special features | |
|---|-------------------------|---|-----------------------|
| On-board graphics card dynamic frequency (max) | 1150 MHz | Intel® vPro™ Platform Eligibility | ✓ |
| Number of displays supported (on-board graphics) | 3 | Operational conditions | |
| On-board graphics card 4K support | ✓ | Tjunction | 100 °C |
| On-board graphics card DirectX version | 12.0 | Technical details | |
| On-board graphics card OpenGL version | 4.5 | Bus bandwidth | 8 |
| On-board graphics card maximum resolution (DisplayPort) | 4096 x 2304 pixels | Bus type units | GT/s |
| On-board graphics card maximum resolution (eDP - Integrated Flat Panel) | 4096 x 2304 pixels | Launch date | Q3'18 |
| On-board graphics card maximum resolution (HDMI) | 4096 x 2160 pixels | Maximum resolution & refresh rate (DisplayPort) | 4096x2304@60Hz |
| On-board graphics card refresh rate at maximum resolution (DisplayPort) | 60 Hz | Maximum resolution & refresh rate (HDMI) | 4096x2160@24Hz |
| On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel) | 60 Hz | Maximum resolution & refresh rate (Integrated Flat Panel) | 4096x2304@60Hz |
| On-board graphics card refresh rate at maximum resolution (HDMI) | 24 Hz | Maximum resolution & refresh rate (VGA) | N/A |
| On-board graphics card ID | 0x3E96 | Processor cache | 8192 KB |
| Discrete graphics card model * | Not available | Product type | Processor |
| Features | | Status | Launched |
| Execute Disable Bit | ✓ | Maximum memory | 128 GB |
| Idle States | ✓ | Processor brand name | Intel Xeon |
| Thermal Monitoring Technologies | ✓ | Supported memory types | DDR4-SDRAM |
| Market segment | Server | Last change | 63903513 |
| Maximum number of PCI Express lanes | 16 | Product family | Intel Xeon Processors |
| PCI Express slots version | 3.0 | Bus speed | 8 GT/s |
| PCI Express configurations | 1x16, 2x8, 1x8+2x4 | Maximum graphics card memory | 128 GB |
| Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0 | Processor ID | 0x3E96 |
| Scalability | 1S | Servicing status | Baseline Servicing |
| CPU configuration (max) | 1 | Logistics data | |
| Embedded options available | ✓ | Harmonized System (HS) code | 85423119 |
| PCI Express CEM revision | 3.0 | Packaging data | |
| Export Control Classification Number (ECCN) | 5A992C | Package type | Retail box |
| | | Weight & dimensions | |
| | | Processor package size | 37.5 x 37.5 mm |
| | | Other features | |
| | | Maximum internal memory | 128 GB |
| | | Maximum internal memory | 131072 MB |
| | | Graphics output | eDP/DP/HDMI/DVI |
| | | Video decoding | ✓ |



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