# HP Intel Xeon Silver 4114 processor 2.2 GHz 13.75 MB L3

**Brand :** HP **Product code:** L09257-001

**Product name :** Intel Xeon Silver 4114

Intel Xeon Silver 4114, 13.75M Cache, 2.2 GHz, 85 W TDP, FCLGA3647

HP Intel Xeon Silver 4114 processor 2.2 GHz 13.75 MB L3:

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HP Intel Xeon Silver 4114. Processor family: Intel Xeon Silver, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 2S

| Processor | |
|---|---|
| Processor generation | 1st Generation Intel® Xeon® Scalable |
| Processor model * | 4114 |
| Processor base frequency * | 2.2 GHz |
| Processor family * | Intel Xeon Silver |
| Processor cores * | 10 |
| Processor socket * | LGA 3647 (Socket P) |
| Component for | Server/workstation |
| Processor lithography * | 14 nm |
| Processor series | Intel Xeon Silver 4000 Series |
| Processor threads | 20 |
| Processor operating modes * | 64-bit |
| Processor boost frequency | 3 GHz |
| Processor cache | 13.75 MB |
| Processor cache type | L3 |
| Thermal Design Power (TDP) | 85 W |
| Cooler included * | ✗ |
| Stepping | U0 |
| Bus type | UPI |
| Processor codename | Skylake |

| Memory | |
|---|---|
| Maximum internal memory supported by processor | 768 GB |
| Memory types supported by processor | DDR4-SDRAM |
| Memory clock speeds supported by processor | 2400 MHz |
| Memory channels * | Hexa-channel |
| ECC | ✓ |

| Graphics | |
|---|---|
| On-board graphics card * | ✗ |
| Discrete graphics card * | ✗ |

| Features | |
|---|---|
| Execute Disable Bit | ✓ |
| Market segment | Server |
| Maximum number of PCI Express lanes | 48 |
| PCI Express slots version | 3.0 |
| Supported instruction sets | AVX, AVX 2.0, AVX-512, SSE4.2 |

| Features | |
|---|---|
| Scalability | 2S |
| Embedded options available | ✗ |

| Processor special features | |
|---|---|
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Intel® Turbo Boost Technology | 2.0 |
| Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Enhanced Intel SpeedStep Technology | ✓ |
| Intel Trusted Execution Technology | ✓ |
| Intel® Speed Shift Technology | ✓ |
| Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Intel® Secure Key | ✓ |
| Intel 64 | ✓ |
| Intel Virtualization Technology (VT-x) | ✓ |
| Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Intel Turbo Boost Max Technology 3.0 | ✗ |
| Intel® Optane™ Memory Ready | ✗ |
| AVX-512 Fused Multiply-Add (FMA) units | 1 |
| Intel® vPro™ Platform Eligibility | ✓ |

| Operational conditions | |
|---|---|
| Tcase | 78 °C |

| Technical details | |
|---|---|
| Intel® Volume Management Device (VMD) version | ✓ |
| Mode-based Execute Control (MBE) version | ✓ |
| Number of UPI links | 2 |

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Publication date: 26-JUL-2025. Prints or copies of Information are only valid on the printed Publication date