

The Mainstream Server with Better-than-Mainstream Innovation

The Intel® Server System M50CYP Family is the high-performance server for your mainstream workloads.



Performance and security innovation across the platform

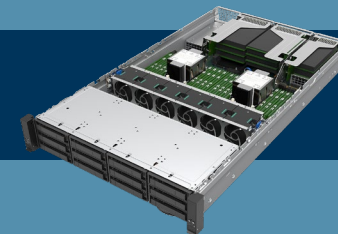
3rd Gen Intel® Xeon® Scalable processors



- Up to 42% more cores than prior gen
- 1.46x average performance gain vs prior gen¹
- Built-in AI acceleration

Any mainstream workload

Cloud and Analytics ▪ Enterprise ▪ SMB and Edge



Breakthrough memory capacity



- Up to 12 TB of memory capacity per server with Intel® Optane™ persistent memory 200 series
- Greater workload density
- Larger in-memory datasets

Extraordinary SSD performance



- Intel® Optane™ SSD P5800X
- Up to 4x greater IOPS performance vs prior gen²



Deploy, manage and operate with confidence



Global Intel technical support



Outstanding 3-year warranty



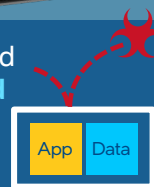
Enterprise-class server management

Hardware-enhanced security

Accelerated encryption with enhanced crypto processing

DATA DATA → 5#6GhpZj2
DATA DATA %6dfakll(9
DATA DATA 7i34fW4*%

Better protect sensitive apps and data with Intel® Software Guard Extensions (Intel® SGX)³



Improved protection for data in memory with Intel® Total Memory Encryption (Intel® TME)



Advanced firmware protection with Intel® Platform Firmware Resilience (Intel® PFR)



1. See claim [125] at www.intel.com/3gen-xeon-config. Results may vary.

2. **Source:** Intel. Date tested: March 18, 2021. **Workload:** FIO rev 3.5, based on random 512B transfer size with total queue depth of 64 (QD=8, workers/jobs=8) workload, 4KB transfer size with total queue depth of 32 (QD=4, workers/jobs=8) workload, 8KB transfer size with total queue depth of 16 (QD=4, workers/jobs=4) workload in most case, except where specified. **System configuration:** Intel® Optane™ SSD P5800X: 1.6TB; CPU: Intel® Xeon® Platinum 8380 2.30GHz 270W 40 cores per socket, CPU Sockets: 2, BIOS: SE5C6200.86B.3021.D40.2103160200, UCODE: 0X8D05A260, RAM: 32GB @3200 MT/s DDR4, DIMM Slots Populated: 16 slots, PCIe Attach: CPU (not PCH lane attach), OS: Ubuntu 20.04.2 LTS, Kernel: 5.4.0-67-generic, FIO version: 3.16; NVMe Driver: Inbox, C-states: Disabled, Hyper Threading: Disabled, CPU Governor (through OS): Performance Mode. Intel Turbo Mode, and P-states = Disabled; IRQ Balancing Services (OS) = Off; SMP Affinity, set in the OS; FIO with ioengine=io_uring. Intel® Optane™ SSD DC P4800X: see product specifications at <https://ark.intel.com/content/www/us/en/ark/products/97161/intel-optane-ssd-dc-p4800x-series-375gb-2-5in-pcie-x4-3d-xpoint.html>. Your results may vary.

3. This technology is not supported when using Intel Optane persistent memory.

Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex. Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure. Your costs and results may vary. Intel technologies may require enabled hardware, software or service activation.

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Learn more on the web: www.intel.com/server-system-M50CYP