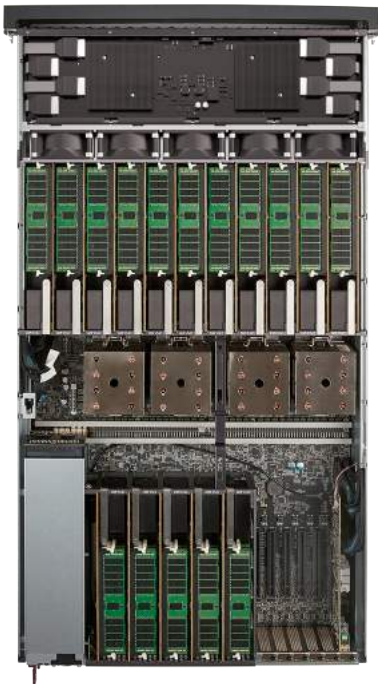


VESNIN IS A FOUR-SOCKET SERVER SUPPORTING UP TO 48 POWER8 CORES AND 8 TB MEMORY IN ULTRA DENSE 2U FORM FACTOR



Most affordable high performance POWER8 system

Ultimate density for data center efficiency

Optimized for I/O intensive workloads

Unmatched price/memory value for a single system

YADRO VESNIN is the world's first OpenPOWER enterprise class high-performance server designed for cutting edge in-memory applications with outstanding footprint. It combines four POWER8 CPUs performance with commodity class industry standard DDR4 RDIMM modules of total volume up to 8 TB with 460 GB/s aggregated memory bus bandwidth.

VESNIN server supports growing demand of efficient scale-out installations for data intensive in-memory computing applications. Integrated industry standard management features make deploying and maintaining large scale environments easier.

Brand new **VESNIN** OpenPOWER server excels in performance over x86 competition for comparable workloads and enjoys best scale-out TCO standing. **VESNIN** delivers shortest response time for elaborate analytics over big data — querying and sorting large unstructured datasets or generating an avalanche of business reports leaves competing x86 solutions lagging behind.

Integrated NVMe storage backplane provides connection for up to 24 NVMe SSDs and delivers fastest possible local storage up to 12 mln IOPS with total bandwidth up to 60 GB/s.

VESNIN server is the only solution on the market capable to capture and store on persistent storage up to 320 Gb/s aggregated network stream.

SPECIFICATIONS

| PROCESSOR AND MEMORY | |
|---|---|
| Processor | Up to 4 POWER8 Turismo SCM |
| Cores | Up to 48 |
| Threads | Up to 384 |
| Level 2 (L2) cache | Up to 24 MB |
| Level 3 (L3) cache | Up to 384 MB |
| Level 4 (L4) cache | Up to 256 MB |
| Memory modules | Up to 128 DDR4 RDIMMs with ECC support |
| Memory volume | Up to 8 TB |
| Memory bus bandwidth | Up to 460 GB/s |
| I/O AND STORAGE | |
| Standard backplane | 24 × 2.5" NVMe SSD (U.2) |
| Optional backplanes | 16 × 2.5" SAS HDD or SSD (U.2); 8 × 2.5" NVMe SSD (U.2) |
| PCI Express bus | PCI Express Gen3 |
| PCI Express adapter slots | 2 × 16 (CAPI), 3 × 8 |
| Network ports | Dual Gigabit Ethernet (one shared with BMC) |
| MANAGEMENT, SOFTWARE AND WARRANTY | |
| Dedicated management card | BMC with IPMI 2.0 support, REST, WebUI, CLI, SNMP |
| Firmware | OpenPOWER / OpenBMC based firmware with YADRO enterprise capabilities |
| Management network | Gigabit Ethernet (shared with host) |
| OS compatibility | Certified for Red Hat Enterprise Linux 7.4 - 7.x, SUSE® Linux Enterprise Server 12 |
| Warranty | 3 years, 9×5, advanced warranty coverage available |
| POWER, COOLING AND PHYSICAL SPECIFICATIONS | |
| Power supply | 1+1 redundant 80 PLUS Titanium up to 3000 W CRPS PSUs with hot swap |
| Cooling | Five 80 mm fans with hot swap |
| Form factor | 2U in industry standard 19" rack; 448 × 815 × 87.9 mm / 17.6 × 32.08 × 3.46 inches |
| Net Weight | 24—41 kg / 53—90 lbs |