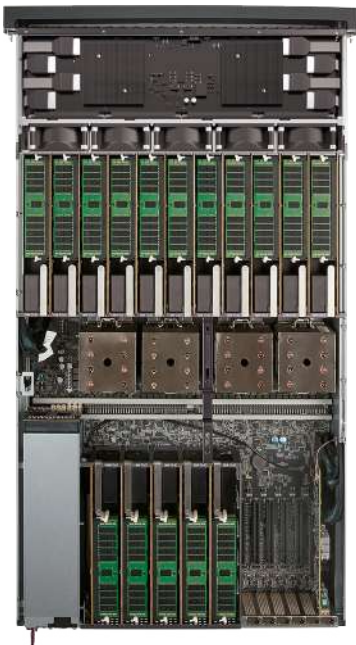




VESNIN™ GEN1 IS A FOUR-SOCKET SERVER SUPPORTING UP TO 48 POWER8 CORES AND 8 TB MEMORY IN ULTRA DENSE 2U FORM FACTOR.



HIGHLIGHTS



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 Gen1 is the world's first OpenPOWER enterprise class high-performance server designed for cutting edge in-memory applications with an 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™ Gen1 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™ Gen1** OpenPOWER server excels in performance over x86 competition for comparable workloads and enjoys best scale-out TCO standing. **VESNIN Gen1** 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™ Gen1 server is the only solution on the market capable to capture and store on persistent storage up to 320 Gb/s aggregated network stream.

VESNIN™ GEN1 SERVERS AT A GLANCE

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 x16 (CAPI), 3 x8
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 and 15
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

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