R120 G1

YADRO VEGMAN®

Dense and scalable servers for a wide range of workloads and data centers

The first Russian mainstream system optimized for accelerating a broad spectrum of modern and traditional workloads. Hybrid local storage and scalable memory are enhanced with expansion flexibility: the server offers an extra OCP3.0 slot in addition to 3 standard PCIe slots.

Key features

- Up to 2 Gen2 Intel Xeon Scalable CPUs
- Up to 6 TB RAM in 1U
- Hybrid local storage with SAS/SATA/NVMe drives
- Up to 4 PCIe adapters in 1U, including an additional OCP NIC slot

Highly scalable RAM

Ensure optimal performance of any business application with VEGMAN R120 servers, which can scale up to 6 TB of RAM (24 × 256 GB).

Hybrid local storage

Balance data processing performance and storage drive costs with a hybrid architecture of the local storage and leverage a sizable HDD/SSD disk space for standard workloads; up to 10 NVMe SSDs for hot data with accelerated access; and internal M.2 drives for OS boot.

Modern and traditional workloads

- Virtualization, VDI
- XaaS, building dense clouds
- DBMS, dense SDS
- HPC

Rich expansion and scalability

Choose an optimal adapter configuration to integrate VEGMAN R120 servers into a modern network infrastructure. Scale up your business resources as needed with a thoughtfully tailored server architecture. In addition to 3 standard PCIe slots an optional OCP3.0 SFF NIC slot is available. Motherboard SKUs include an option with 4×10GbE SFP+ embedded ports.

Open management technology

YADRO supports open technology development and is an active member and contributor to the OpenBMC project. Our engineers have strategically selected OpenBMC as the foundation for designing the management and monitoring subsystem in VEGMAN R120 servers and supplementing it with a wide range of enterprise-level functions. You can use IPMI 2.0, WebUI, CLI, SNMP and Redfish interfaces to monitor and manage VEGMAN R120 servers.

Official vendor certification

YADRO products are reliable and secure. We are constantly working on official government and vendor compatibility certification for an extensive list of OSs and hypervisors. All our servers, including VEGMAN R120, are listed in the Russian Ministry of Industry & Trade Register of domestic products.

YADRO VEGMAN® R120 G1 Technical Specifications

VEGMAN® R120 G1	
Form factor	1U, installation in a standard 19" rack
Compute Capacity	Up to 2 × Intel® Xeon® Processor Scalable Family 2nd Gen, TDP up to 205 W
Memory	• 24 × DDR4-2933/2666/2400/2133, 2 DPC • Supports RDIMM/LRDIMM ECC, DCPMM • Up to 6 TB RAM (24 × 256GB)
Local Storage	Configuration options: • 4 × LFF SAS/SATA front • 10 × SFF SAS/SATA/NVMe front • Additional 2 × SFF SAS/SATA/NVMe rear
RAID Support	• RAID controllers with up to 8 GB cache memory and RAID support level 0/1/5/6/10/50/60 and optional protection of the cache memory content when the power is turned off • VROC support for NVMe
OS Boot Drives	2 × M.2 SATA SSD with SW RAID
I/O	• Front: 2 × USB 2.0 Type A (host), 1 × VGA • Rear: 1 × VGA, 2 × USB 3.0 Type A (host), 1 × Sserial BMC (RJ-45), MicroSD for BMC • Internal: 2 × USB 3.0 Type A (host)
Expansion	• Up to 4 × PCIe 3.0, including additional OCP NIC adapter • Supports one regular-width GPU
Network Connectivity	• 1 × shared port host/BMC 1GbE RJ-45 • 1 × management port 1GbE RJ-45 • 4 × 10GbE SFP+ and 1 × 1GbE RJ-45, or 4 × 1GbE RJ-45, depending on the chosen motherboard
Management	• OpenBMC-based software with corporate functionality from YADRO • Access via IPMI 2.0, WebUI, CLI, SNMP, Redfish
Supported OS (certifications pending)	• VMware® ESXi • Microsoft Windows Server® с технологией Hyper-V • Red Hat® Enterprise Linux • SUSE® Linux Enterprise Server • Canonical® Ubuntu® LTS • Astra Linux • RedOS • ROSA COBALT, CHROME • ECP Veil, Veil SE, Veil VDI
Power	1+1 CRPS Platinum up to 1600 W
Cooling	(6+1) × 40 mm hot-swappable
Climate	+10...+35 °C at a relative humidity of 20% to 80%. Certain configurations have additional restrictions
Dimensions (D × W × H)	757 × 448 × 43.5 mm
Installation Kit	Rails, optional cable management guide
Warranty and Support	1 year 9×5, advanced programs and support options available