

S220 S320

YADRO VEGMAN®

Scalable Enterprise Content Servers

A spacious storage subsystem, fast network connections, and modern accelerator support for intelligent data processing. Work with large, fast-growing data sets effectively.

Advantages

- Store up to 576 TB in a compact package
- Horizontal scaling up to 7 PB in a 42U rack
- Tiered storage of basic data (HDD), hot data (SSD) and OS
- Accelerators support for intelligent data processing

Key use cases

- Big data processing
- Multimedia streaming
- Software-defined data storage systems
- Distributed data storage
- Hierarchical storage
- Data archiving

Storage density and scalability

Dual-socket VEGMAN servers S220 and S320 are capable of significantly scaling storage subsystem, depending on your specific data processing tasks. By scaling disk space to 288 and 576 TB, respectively, VEGMAN servers S220 and S320 enable you to effectively work with large, fast-growing data sets.

Tiered storage

Take advantage of the multi-tier architecture of the built-in storage — get a sizeable HDD disk space for basic data, SSD for hot data with accelerated access, and M.2 drives with a separate RAID for the OS. Balance data processing performance and storage drive costs.

Intensive data exchange without bottlenecks

VEGMAN S220/S320 servers have 4 built-in 1/10GbE SFP+ interfaces. As a result, you might not need to install adapters in the expansion slots to integrate the servers into a modern network infrastructure. If necessary, you can easily order an alternative configuration with high-speed Ethernet, Fiber Channel, and InfiniBand adapters.

Balanced configuration

The scalable disk subsystem and the optimal configuration of expansion adapters can be easily supplemented with GPU or FPGA accelerators to enable efficient local processing of large data streams by leveraging modern intelligent tools.

High resource efficiency

80PLUS Platinum power supply units provide a reliable power source to VEGMAN® storage systems and allow you to save on data center electricity and cooling costs.

Contact us:
sales@yadro.com
www.yadro.com

15 Rochdelskaya St. Bld. 15
Moscow, Russia 123376
+7 495 540 50 55

The specifications described herein may not be final and are subject to change.

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Technical Specifications YADRO VEGMAN® S220 / S320

	VEGMAN® S220	VEGMAN® S320
Form factor	2U, installation in a standard 19" rack	3U, installation in a standard 19" rack
Compute capacity	Up to 2 Intel Xeon Scalable v2 processors, TDP up to 205 W	
Memory	12 × DDR4-2933/2666/2400/2133 RDIMM ECC / LRDIMM ECC/DCPMM ECC memory modules 1 memory module per channel	
Storage subsystem	<ul style="list-style-type: none"> • 126 compartments for LFF SAS/SATA hot-swappable drives, maximum capacity is 288 TB • 4 compartments for SFF SATA/NVMe drives (SATA hot-swappable) 	<ul style="list-style-type: none"> • 32 compartments for LFF SAS/SATA hot-swappable drives, maximum capacity is 576 TB • 4 compartments for SFF SATA/NVMe drives (SATA hot-swappable)
RAID support	RAID controllers with up to 8 GB cache memory and RAID support level 0/1/5/6/10/50/60 Optional protection of the cache memory content when the power is turned off	
Drives for booting the OS	2 × M.2 SATA SSD (optionally in RAID 1)	
Expansion options	<ul style="list-style-type: none"> • 5 × PCIe Gen3 x8 HHHL (1 is used for the RAID controller) • 2 × PCIe Gen3 x16 FHFL 	<ul style="list-style-type: none"> • 5 × PCIe Gen3 x8 FHHL (1 is used for the RAID controller) • 2 × PCIe Gen3 x16 FHFL or 4 × PCIe Gen3 x8 FHFL
Accelerator support	Up to 1 dual-width GPU or 2 regular-width accelerators	Up to 2 dual-width GPUs
I/O interfaces	<ul style="list-style-type: none"> • 4 × 1/10Gbe SFP+ rear • 3 × 1Gbe RJ-45 (1 mgmt/1 host/1 shared) • 2 × host USB 3.0 rear • 2 × host USB 2.0 internal • 1 × BMC USB 2.0 internal • 1 × BMC MicroUSB rear • 1 × VGA rear • 1 × MicroSD internal 	
Management	<ul style="list-style-type: none"> • OpenBMC-based software with corporate functionality from YADRO, Call • Home Access via IPMI 2.0, REST, WebUI, CLI, Redfish 	
OS support	Canonical® Ubuntu® LTS, Red Hat® Enterprise Linux, SUSE® Linux Enterprise Server, VM-ware®, ESXi, ECP Veil, Microsoft Windows Server® с технологией Hyper-V	
Warranty and support	1 year, 9×5, advanced support options are also available: 1/3/5 years 9×5/24×7 with additional support options	
Power supply	1+1 CRPS Platinum, up to 1,600 W	1+1 CRPS Platinum, up to 2,000 W
Cooling	(4+1) × 80 mm, hot-swappable	(2+1) × 120 mm, hot-swappable
Environmental features	+ 10... + 35 °C at a relative humidity of 20% to 80% (ASHRAE A2)	
Physical features	815 mm × 448 mm × 88 mm	815 mm × 448 mm × 132,5 mm
Installation kit	Rails, optional cable management guide	