Vega™ Overclocked Servers

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FACED WITH TOUGH COMPETITIVE REALITIES, INCREASING REGULATIONS AND EVER INCREASING AMOUNTS OF DATA, FINANCIAL SERVICE INSTITUTION EXPERTS REQUIRE A SOLID IT FOUNDATION TO MEET ALL THEIR DEMANDS.

SOLUTION OVERVIEW

Offered in a variety of form factors and configurations, our range of overclocked servers feature unique customisations, designed and optimised for high frequency trading and FSI workloads. Our range of overclocked solutions achieve the fastest sequential processing speeds on the market while maximizing performance across all cores. Our experts have extensive knowledge in boosting performance and advanced cooling methods necessary to achieve the highest performance for your business.

define tech

Designing an overclocked server doesn't stop after hardware selection. Hundreds if not thousands of tweaks, variations, and tests are done by our technical team in the relentless pursuit of shaving nanoseconds off of computing time. Every overclocked server runs the MPrime test for 24 hours, testing with high stress key components of the system such as the memory and CPU. Other tests are run as well, including SysBench, Sys-Jitter, GSAT, Intel MLC, and others – all with the goal of leaving no stone unturned in the quest for extreme performance.

After thoroughly testing each system, we recommend to our customers the safe limits within which to operate their new systems to ensure stability and longevity. We recognize that these systems often operate in environments where downtime is not an option. Because of this, our overclocked server come as standard with our Advanced Swap-Out Warranty for the first year. If something goes wrong with your server, a brand new system is shipped to you to replace it. On-site support and installation options are also available.

USE CASES

High Frequency Trading

Risk Modeling

Quantative Analysis

FSI Workloads

KEY FEATURES

Ultra-Low Latency Physical Access Control Dynamic Scaling Global Reach Global DC Distribution Full Insfrastructure Control Overclocked Servers Bare Metal Provisioning

GET IN TOUCH

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ADD-ON CARDS

Our 1u overclock platforms support a variety of GPUs, FPGAs and NICs. Some standard options include NVIDIA Tesla GPUs along with Solarflare, Mellanox and Exablaze NICs.

BINNED CPU

Each CPU is hand picked to produce the best possible performance.

OPTIMIZED MEMORY

Memory cards are tested for both speed and timings producing the lowest latency.

MOTHERBOARD

Customised motherboard combine overclocking with traditional server management tools.

COOLING

The heart of the system is patented cooling technology, allowing the system to remove heat and produce faster performance.

CHASSIS

Customised chassis optimised for cooling and density.

LARGE POWER SUPPLY

Redundant overprovisioned power supply allows for fault tolerance and installation of of GPUs and FPGAs.

STORAGE

Having multiple storage options each system can support a variety of SSDs and NVMe drives.

Vega r116i	Vega r118i
Less Cores /High Frequencies	Workhorse Overclocked System
1x Intel Raptor Lake	1x Intel Cascade Lake-X
24 core i9-14900K @ up to 5.9GHz	24 core w-2495 @ up to 4.9GHz 20 core w-2495 @ up to 5.0GHz 56 core w-3495 @ TBD
Up to 64GB DDR5	Up to 512GB DDR5
Up to 4x 2.5" Hard Drives	Up to 4x 2.5" Hard Drives
1 x 16 PCIe or 2 x 8 PCIe	4 x 16 PCIe gen5 (2x FHFL, 2x LP)
1U Rackmount	1U Rackmount
Redundant 850W PSU	Redundant 2000W PSU