



VEGA SERIES

OVERCLOCKED SERVERS FOR FSI AND HFT WORKLOADS

HIGH-FREQUENCY TRADING

MODELING AND FORECASTING

RISK ANALYSIS

FINANCIAL STRATEGY DEVELOPMENT

VIDEO COMPRESSION

CAD

FACED WITH TOUGH COMPETITIVE REALITIES, INCREASING REGULATIONS AND EVER INCREASING AMOUNTS OF DATA, FSI 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.

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, SysJitter, 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.

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.

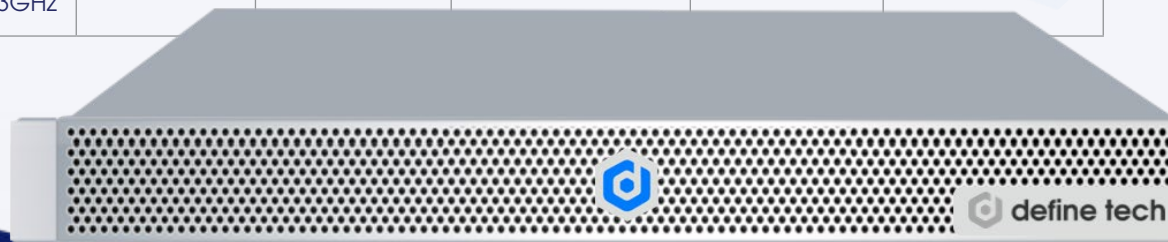
LARGE POWER SUPPLY

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

STORAGE

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

Model	CPU	Memory	Hard Drives	Slots	Form Factor	PSU
R-116i (10 Core)	1x Intel Comet Lake-S 10-core i9-10900K @5.2 GHz	Up to 128GB	Up to 2x 2.5"	PCI-E 1x 16 or 2x8	1U rackmount	Redundant 600w
R-116i (8 Core)	1x Intel Rocket Lake-S 8-core i9-11900K @5.2 GHz	Up to 128GB	Up to 2x 2.5"	PCI-E 1x 16 or 2x8	1U rackmount	Redundant 600w
R-118i	1x Intel Cascade Lake-X 18-core i9-10980XE @ 5.0 GHz	Up to 128GB	Up to 4x 2.5"	PCI-E 2x 16 1x8 1x8	1U rackmount	Redundant 1200w
R-119i	1x Intel® Xeon®-W Processor 28-core W-3175x @ 4.4 GHz	Up to 512 GB	Up to 4x 2.5" ; 2xm.2 NVMe	PCI-E 2x 16 2x8	1U rackmount	Redundant 1200w
R-129i	2x Intel Cascade Lake Dual 8-core 6244 @ 4.3 GHz Dual 18-core 6254 @ 3.9 GHz Dual 24-core 8268 @ 3.5GHz Dual 28-core 8280 @ 3.3GHz	Up to 3TB	Up to 10x 2.5"	2x16 PCIe 3.0 (FP) 1x8 PCIe 3.0 (LP) 1x8 PCIe 3.0 (RAID Controller)	1U rackmount	Redundant



For pricing or to discuss your requirements:

www.define-technology.com | +44 (0)20 3034 5550 | info@define-technology.com