XENON eXtreme High Frequency Trading Solutions

XENON has a strong track record in providing innovative High Frequency Trading (HFT) solutions to leading firms within global financial markets. Successfully tried and tested in our labs, the eXtreme HFT server line has met and matched real-world HFT conditions for our customers across Australia, Asia and the Americas.

High Frequency Trading has become a critical operation within global financial markets and XENON's eXtreme HFT servers are customised to deliver more than 30% lower latency than standard off-the-shelf servers, providing a competitive edge to our clients in an industry that requires ultra-low-latency for market makers to get maximum performance and a return on their investment.

XENON's eXtreme HFT server solutions are:
- Designed specifically for low latency algorithmic trading by selecting best of breed components
- Designed for maximum performance due to CPU and safely over-clocked processors and memory
- Tested extensively for durability to ensure 24x7 operating time
- A scalable architecture with predictable performance that adjusts to meet business requirements
- Equipped to handle extremely volatile periods of market activity without loss or downtime
- Backed by 24 x 7 Global Onsite Warranty Support

Specifications

MODEL	XENON RADON Solo 1U RX991i 4Cores 5.2GHz HFT SERVER	XENON RADON Solo 1U RX993i 10Cores 5.0GHz HFT SERVER	XENON RADON Solo 1U RX998i 18Cores 4.8GHz HFT SERVER
PERFORMANCE	Overclocked up to 5.2GHz with 4Cores Active	Overclocked up to 5.0GHz with 10Cores Active	Overclocked up to 4.8GHz with 18Cores Active
PROCESSOR BASE FREQUENCY (CPU)	4.3GHz	3.3GHz	2.6GHz
HYPER-SPEED FREQUENCY (CPU)	5.2GHz	5.0GHz	4.8GHz
MEMORY BASE FREQUENCY (RAM)	2666MHz	2666MHz	2666MHz
HYPER-SPEED FREQUENCY (RAM)	3200MHz	3200MHz	3200MHz
CPU	Single Intel® Core™ i7-7740X (Kaby Lake-X) 4Cores 8MB Cache 112W	Single Intel® Core™ i9-7900X (Skylake-X) 10Cores 13.75MB L3 Cache 140W	Single Intel® Core™ i9-7980XE (Skylake-X) 18Cores 24.75MB Cache 165W
CHIPSET	Intel® X299	Intel® X299	Intel® X299
MEMORY	2 x 16GB DDR4-3200MHz Non-ECC UDIMM **(Max: 64GB)**	2 x 16GB DDR4-3200MHz Non-ECC UDIMM **(Max: 128GB)**	2 x 16GB DDR4-3200MHz Non-ECC UDIMM **(Max: 128GB)**
CPU COOLING	XENON Single Processor Closed Loop 1U Cooler	XENON Single Processor Closed Loop 1U Cooler	XENON Single Processor Closed Loop 1U Cooler
DUAL EXPANSION SLOTS	1 x PCIe 3.0 x16 (x8 signal with LP/HL NIC) and 1 x PCIe 3.0 x16 (x4 signal with FH/HL NIC)	1 x PCIe 3.0 x16 (x16 signal with LP/HL NIC) and 1 x PCIe 3.0 x16 (x8 signal with FH/HL NIC)	1 x PCIe 3.0 x16 (x16 signal with LP/HL NIC) and 1 x PCIe 3.0 x16 (x8 signal with FH/HL NIC)
STORAGE EXPANSION	4 x Hot-Swap 2.5" Drive Bays	4 x Hot-Swap 2.5" Drive Bays	4 x Hot-Swap 2.5" Drive Bays
ON-BOARD STORAGE CONTROLLER	Integrated 6 x SATA3 (6 Gbps) Ports	Integrated 6 x SATA3 (6 Gbps) Ports	Integrated 6 x SATA3 (6 Gbps) Ports
INPUT / OUTPUT	4 x USB 2.0 Ports / 4 x USB 3.0 Ports / 4 x USB 3.1 Ports / 1 x VGA Port / 1 x COM Port	4 x USB 2.0 Ports / 4 x USB 3.0 Ports / 4 x USB 3.1 Ports / 1 x VGA Port / 1 x COM Port	4 x USB 2.0 Ports / 4 x USB 3.0 Ports / 4 x USB 3.1 Ports / 1 x VGA Port / 1 x COM Port
LAN	2 x RJ45 Gigabit Ethernet LAN Ports	2 x RJ45 Gigabit Ethernet LAN Ports	2 x RJ45 Gigabit Ethernet LAN Ports
PSU	650W Gold Redundant	650W Gold Redundant	650W Gold Redundant
ON-BOARD MANAGEMENT	Intelligent Platform Management Interface (IPMI)	Intelligent Platform Management Interface (IPMI)	Intelligent Platform Management Interface (IPMI)
XENON SUPPORT & WARRANTY	24x7 Global Onsite Support with 4-Hour or NBD Response or Return to Base	24x7 Global Onsite Support with 4-Hour or NBD Response or Return to Base	24x7 Global Onsite Support with 4-Hour or NBD Response or Return to Base

For further details and full specifications on all our HFT servers please contact Dragan Dimitrovici (dragand@xenon.com.au) or Sunil Khanna (sunilk@xenon.com.au).

www.xenon.com.au
info@xenon.com.au
1300 888 030

XENON HFT Partner Products

Solarflare High-Performance Server Adapters

Solarflare offers customers the lowest latency networking solutions for electronic/high frequency trading and other financial services applications with its high-performance 10GbE server adapters and OpenOnload® application acceleration middleware. These products enable customers to leverage their existing Ethernet and IP infrastructures while achieving the absolute lowest latency with no need to modify applications.

Arista Switches

Arista's award-winning platforms, ranging in Ethernet speeds from 10 to 100 gigabits per second, redefine scalability, agility and resilience. Arista has shipped more than five million cloud networking ports worldwide with CloudVision and EOS, an advanced network operating system. Committed to open standards, Arista is a founding member of the 25/50GbE consortium. Arista delivers the most efficient and best performing 10Gb Ethernet platforms.

Metamako Ultra-low Latency Switches

Metamako is a technology company that specialises in solutions for latency sensitive businesses. Metamako's engineering team brings together a wealth of skills and experience in digital hardware design (Boards, FPGA, ASIC), PCB design, embedded software (kernel, drivers, applications), low-level networking and full product lifecycle from design to manufacturing and support.

Exablaze Switches

Exablaze is a dedicated supplier of low latency switches and network interface cards. Exablaze's portfolio consists of layer 2 switches (with the new Exalink Fusion) and Network Interface Cards (the ExaNIC range). All products are modular and up-gradable, hence securing your current and future technology investment.

Spectracom Network Time Server

SecureSync® combines Spectracom's precision master clock technology and secure network-centric approach with a compact modular hardware design in a 1RU chassis to bring you a powerful, scalable and flexible time server. It supports a wide variety of network synchronization and management protocols.

FOR MORE INFORMATION:

Dragan Dimitrovici
Managing Director
M +61 410 303 999
P +61 3 9549 1110
E dragand@xenon.com.au

Sunil Khanna
Business Development Manager
M +61 401 844 375
P +61 3 9549 1141
E sunilk@xenon.com.au

XENON Systems Pty Ltd
10 Westall Road, Clayton South,
VIC 3169, Australia
info@xenon.com.au
www.xenon.com.au

XENON®
High Performance Computing

For more information:
www.xenon.com.au | info@xenon.com.au | 1300 888 030