ORION **HF**310-G4
high-frequency server

Extreme **Performance** and **Low Latency**

CIARA
a Hypertec brand

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high-frequency server

CIARA offers high performance & reliable high frequency servers designed specifically for HFT and Quantitative Investing. The ORION HF server product lineup is perfect for your ultra-low latency application environments.
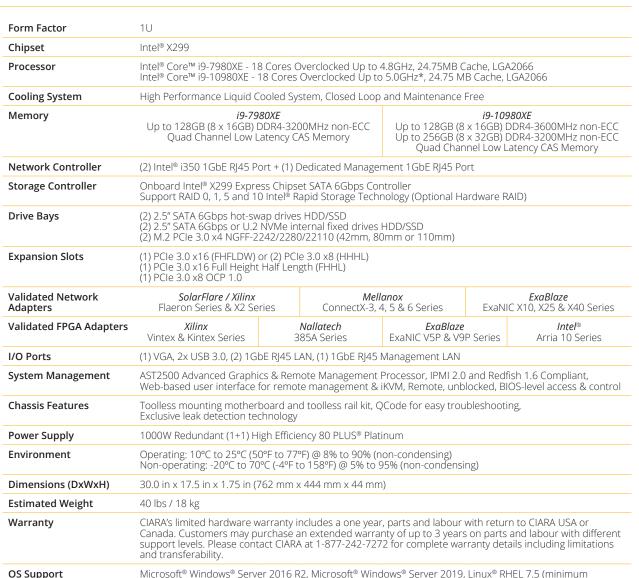
1U FF · **1** SOCKET · **5.0** GHz · **256GB** RAM

4 HDD · **2** M.2 · **3** PCIe · **1000W** PSU

intel CORE i9 Extreme

intel Technology Provider
Platinum 2020

Form Factor	1U	
Chipset	Intel® X299	
Processor	Intel® Core™ i9-7980XE - 18 Cores Overclocked Up to 4.8GHz, 24.75MB Cache, LGA2066 Intel® Core™ i9-10980XE - 18 Cores Overclocked Up to 5.0GHz*, 24.75 MB Cache, LGA2066	
Cooling System	High Performance Liquid Cooled System, Closed Loop and Maintenance Free	
Memory	*i9-7980XE* Up to 128GB (8 x 16GB) DDR4-3200MHz non-ECC Quad Channel Low Latency CAS Memory	*i9-10980XE* Up to 128GB (8 x 16GB) DDR4-3600MHz non-ECC Up to 256GB (8 x 32GB) DDR4-3200MHz non-ECC Quad Channel Low Latency CAS Memory
Network Controller	(2) Intel® i350 1GbE RJ45 Port + (1) Dedicated Management 1GbE RJ45 Port	
Storage Controller	Onboard Intel® X299 Express Chipset SATA 6Gbps Controller Support RAID 0, 1, 5 and 10 Intel® Rapid Storage Technology (Optional Hardware RAID)	
Drive Bays	(2) 2.5" SATA 6Gbps hot-swap drives HDD/SSD (2) 2.5" SATA 6Gbps or U.2 NVMe internal fixed drives HDD/SSD (2) M.2 PCIe 3.0 x4 NGFF-2242/2280/22110 (42mm, 80mm or 110mm)	
Expansion Slots	(1) PCIe 3.0 x16 (FHFLDW) or (2) PCIe 3.0 x8 (HHHL) (1) PCIe 3.0 x16 Full Height Half Length (FHHL) (1) PCIe 3.0 x8 OCP 1.0	

Validated Network Adapters	*SolarFlare / Xilinx* Flaeron Series & X2 Series	*Mellanox* ConnectX-3, 4, 5 & 6 Series	*ExaBlaze* ExaNIC X10, X25 & X40 Series	
Validated FPGA Adapters	*Xilinx* Vintex & Kintex Series	*Nallatech* 385A Series	*ExaBlaze* ExaNIC V5P & V9P Series	*Intel®* Arria 10 Series

I/O Ports	(1) VGA, 2x USB 3.0, (2) 1GbE RJ45 LAN, (1) 1GbE RJ45 Management LAN
System Management	AST2500 Advanced Graphics & Remote Management Processor, IPMI 2.0 and Redfish 1.6 Compliant, Web-based user interface for remote management & iKVM, Remote, unblocked, BIOS-level access & control
Chassis Features	Toolless mounting motherboard and toolless rail kit, QCode for easy troubleshooting, Exclusive leak detection technology
Power Supply	1000W Redundant (1+1) High Efficiency 80 PLUS® Platinum
Environment	Operating: 10°C to 25°C (50°F to 77°F) @ 8% to 90% (non-condensing) Non-operating: -20°C to 70°C (-4°F to 158°F) @ 5% to 95% (non-condensing)
Dimensions (DxWxH)	30.0 in x 17.5 in x 1.75 in (762 mm x 444 mm x 44 mm)
Estimated Weight	40 lbs / 18 kg
Warranty	CIARA's limited hardware warranty includes a one year, parts and labour with return to CIARA USA or Canada. Customers may purchase an extended warranty of up to 3 years on parts and labour with different support levels. Please contact CIARA at 1-877-242-7272 for complete warranty details including limitations and transferability.
OS Support	Microsoft® Windows® Server 2016 R2, Microsoft® Windows® Server 2019, Linux® RHEL 7.5 (minimum KERNEL: 3.10.0-862.el7), CentOS™ 7.5 (minimum KERNEL: 3.10.0-862.el7), Debian 9.5 (minimum KERNEL: 4.15), Ubuntu 18.04 (minimum KERNEL: 4.15), support for other versions available upon request.

*Maximum clock speed may vary depending on applications and workloads.

1 (800) 876-0920 | hypertec.com/contact

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