

ORION HF310-G4

high-frequency server

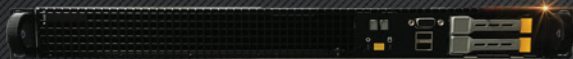
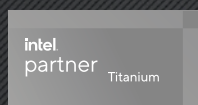
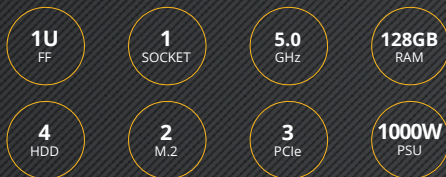


Extreme **Performance** and **Low Latency**

ORION HF310-G4

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.



Datasheet / ORION HF310-G4

Form Factor	1U			
Chipset	Intel® X299			
Processor	Intel® Core™ i9-10900X - 10 Cores Overclocked Up to 5.0GHz*, 19.25 MB 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	Up to 64GB (8 x 8GB) DDR4-3600MHz non-ECC, Quad Channel Low Latency CAS Memory Up to 128GB (8 x 16GB) 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	<i>AMD (Xilinx)</i> X2 Series		<i>Nvidia (Mellanox)</i> ConnectX-3, 4, 5 & 6 Series	<i>Cisco (Exablaze)</i> Nexus SmartNIC X10, X25, X40 & X100 Series
Validated FPGA Adapters	<i>AMD (Xilinx)</i> Vintex & Kintex Series		<i>Bittware (Nallatech)</i> 385A Series	<i>Cisco (Exablaze)</i> Nexus SmartNIC+ V5P & V9P Series <i>Intel®</i> FPGA PAC 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

©2021 CIARA, a Hypertec brand. All rights reserved. "Intel, the Intel logo, Intel Core, Intel Inside, the Intel Inside logo, Intel vPro and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries." All other trademarks mentioned herein are the property of their respective owner. This document is only for informational purposes. Product specifications subject to change without notice.

01/21

CIARA
a Hypertec brand