

ORION HF610T-G4

high-frequency server



Accelerated **Performance & Energy Efficient**

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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
- 2 SOCKET
- 4.1 GHz
- 10 HDD
- 5 PCIe
- 1200W PSU



Form Factor	1U
Chipset	Intel® C621 Lewisburg
Processor	Intel® Xeon® Gold 6144, 8 core, 24.75 M cache, 3.5 GHz. Accelerated on all cores @ 4.1 GHz (normal), 3.5 GHz (AVX2), 2.8 GHz (AVX512) Intel® Xeon® Gold 6146, 12 core, 24.75 M cache, 3.2 GHz. Accelerated on all cores @ 3.9 GHz (normal), 3.3 GHz (AVX2), 2.7 GHz (AVX512) – Recommended Intel® Xeon® Gold 6154, 18 core, 24.75 M cache, 3.0 GHz. Accelerated on all cores @ 3.7 GHz (normal), 3.3 GHz (AVX2), 2.7 GHz (AVX512) Intel® Xeon® Platinum 8168, 24 core, 33 M cache, 2.7 GHz. Accelerated on all cores @ 3.4 GHz (normal), 3.0 GHz (AVX2), 2.5 GHz (AVX512) Intel® Xeon® Platinum 8180, 28 core, 38.5 M cache, 2.5 GHz, accelerated on all cores @ 3.2 GHz (normal), 2.8 GHz (AVX2), 2.3 GHz (AVX512) Other Intel® Xeon® Gold and Platinum performance available upon request
Memory Capacity	RDIMM DDR4 ECC 2,666 MHz. 8, 16, and 32 GB LRDIMM DDR4 ECC 2,666 MHz. 32 and 64 GB
Memory Type and Size	RDIMM DDR4 ECC 2,666 MHz. 8, 16, and 32 GB LRDIMM DDR4 ECC 2,666 MHz. 32 and 64 GB
Network Controller	(2) 1 Gb/s LAN ports (Intel® I350-AM2) (1) 10/100/1000 Mb/s dedicated management port (Option: Support Omni-Path from CPU0/CPU1) Optional Low Latency add-on cards from major suppliers such as Solarflare, Mellanox, Exablaze, etc. have been validated
Storage Controller	Onboard Intel® C621 RAID controller Intel® SATA RAID 0, 1, 5, 10 (available to 1 port SSATA DOM on MB) Intel® Virtual RAID on CPU (VROC) RAID 0, 1 VROC module is for Intel® SSD only.
Drive Bays	(10) 2.5" hot-swappable HDD SATA/SAS; (8) 2.5" SATA, and (2) 2.5" U.2 NVMe HHD SAS card is required for SAS device support
Expansion Slots	Option 1: HF610T-G4-DH10-3L20 (2) PCIe x 8 (Gen3 x8), low profile, half-length – CPU0 (1) PCIe x 16 (Gen3 x16), low profile, half-length – CPU1 (1) PCIe x 16 OCP Mezzanine (Gen3 x16) – CPU0 (1) PCIe x 16 OCP Mezzanine (Gen3 x16) – CPU1 Option 2: HF610T-G4-DH10-2F20 (1) PCIe x 16 (Gen3 x16), full height, half-length – CPU 0 (1) PCIe x 16 (Gen3 x16), full height, half-length – CPU1 (1) PCIe x 16 OCP Mezzanine (Gen3 x16) – CPU0 (1) PCIe x 16 OCP Mezzanine (Gen3 x16) – CPU1
I/O Ports	(3) RJ45, (2) USB 3.0, (1) VGA, (1) MLAN, (1) ID button with LED
System Management	ASPEED AST2500
Power Supply	800 W or 1200 W redundant (1+1) high efficiency 80 PLUS® Platinum Certified (single output)
Environment	Operating: 50°F to 95°F (10°C to 35°C) @ 8% to 80% (non-condensing) Non-operating: -40°F to 140°F (-40°C to 60°C) @ 20% to 90% (non-condensing)
Dimensions (DxWxH)	28.7 in x 17.2 in x 1.7 in (730 mm x 438 mm x 44 mm)
Estimated Weight	34.82 lb (13 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 2012 R2, Microsoft® Windows® Server 2016. RHEL6.9 (x64) to 7.3 (x64), SuSE® Linux Enterprise Server 12.2 (x64), 11.4 (x64), Ubuntu 16.04.2 LTS (x64)

1 (877) 242-7272 | sales@ciaratech.com | ciaratech.com

