Key Features

* *Born for major purposed applications and dedicated trading system*

* *Best liquid-cooled designed, all CPU cores up to 4.7+GHz (16 cores)*

* *Best liquid-cooled designed, all CPU cores up to 4.9+GHz (12 cores)*

* *AMD CPU based, offer the largest L3 cache (more than Intel) for using*

* *Excellent liquid-cooled and thermal flow only in 1U form*

* *Most 2 x high-speed I/O slots for different AP designed architectures*

* *Up to 60% ~80% performance than traditional general purposed server*

* *Considerations for global environmental protection & sustainable use*

* *Liquid-cooled model downgrade to air-flow cooling model for IT using*

* *Provide downgrade to air-flow cooling model suite when need & apply*

Aquila Avenger Series :

► **Aquila Avenger Z3R5950X (16 cores)** all cores can up to 4.7+GHz
All cores up to 4.7+GHz, Infinity Fabric 3600MHz, L3 cache 64MB
Memory frequency at least 3600MHz

► **Aquila Avenger Z3R5900X (12 cores)** all cores can up to 4.9+GHz
All cores up to 4.9+GHz, Infinity Fabric 3600MHz, L3 cache 64MB
Memory frequency at least 3600MHz

► **Aquila Avenger-3D Z3D5800X (8 cores)** all cores can up to 4.8GHz
All cores up to 4.8GHz, Infinity Fabric 3600MHz, L3 cache 96MB
Memory frequency at least 3600MHz
Note：AMD lock PBO2 OC for this CPU, we take manual way for this freq.

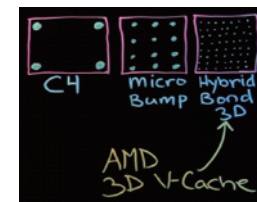### AMD DIE MCM：from Zen2 to Zen3 (Info is from AMD website)

The Zen 3 architecture integrates 8 CCXs into one CCD, and the common access to a cache zone is better than the Zen2 architecture.

AMD 3D V-Cache™ Technology (Aquila Avenger-3D only)

The access time of programs and data in the cache is about 8~10ns, but it must be at least 10 times in the memory. AMD CPU with Zen3 or Zen3+, has massive L3 cache capacity, which can achieve higher execution efficiency.

AMD opens a new era, providing more L3 cache capacity to the CPU. 3D V-Cache™ Technology is a new innovation, opening a new horizon of massive CPU cache.
ARAVision also adjusts and optimizes the cache frequency, and effectively applies it in the HFT field.

Our products are available in both air-cooled and liquid-cooled models for trading options. When the liquid-cooled model is no longer used, it can be easily replaced with an air-cooled architecture by purchasing a few kits. In addition, our overclocked servers It only needs 750W to operate, saving electricity and carbon emissions, allowing your business to easily meet global ESG standards.

We give you best 風水

Aquila Avenger

Form Factor	1U chassis with rail kit
Processor	**Aquila Avenger (Z3R5950X)** AMD Ryzen 5950X (Zen3) 16 cores 64MB L3 cache base 3.4GHz CPU freq. x1 (All cores are 4.7+GHz CPU frequency via PBO2 & on liquid-cooled operation) **Aquila Avenger (Z3R5900X)** AMD Ryzen 5900X (Zen3) 12 cores 64MB L3 cache base 3.7GHz CPU freq. x1 (All cores are 4.9+GHz CPU frequency via PBO2 & on liquid-cooled operation)
Chipset	AMD X570
Memory	64GB (16GBx4) DDR4-3600 EXPO OC UDIMM (Max. 128GB)
Expansion Slots	PCI-E 3.0 x16 Slot x2 (Speed for x16/x8)
SSD	500GB NVMe M.2 PCI-E SSD x1 (Max.2), M.2 SATA SSD board Kits (Max.2, optional)
HFT I/O Card	Solarflare X2522-25G-Plus or SFN8522-Plus ultra low latency NIC x1 (option for max.2)
Input / Output	ASPEED AST2500 Dedicated IPMI RJ45 LAN port x1 On-board with RJ45 LAN port x1 (1Gbps x1) * Option : Additional 1Gbps RJ45 LAN port x 1 USB 2.0 port x1 (Rear), USB 2.0 port x2 (Front) VGA port x1 * Option : COM port x1
Power Supply	750W high efficiency redundant PSU platinum level
OS	Preinstall optimized RHEL 8.x Linux OS * Option : Windows Server 2019 / 2022
Warranty	2 years hardware warranty 1 year on-side service. (limited in Taiwan)

Aquila Avenger-3D

Form Factor	1U chassis with rail kit
Processor	**Aquila Avenger-3D (Z3D5800X)** AMD Ryzen 5800X3D (Zen3 3D V-Cache) 8 cores 96MB (32MB+64MB) L3 cache base 3.4GHz CPU freq. x1 (All cores are manual setting as 4.8GHz CPU frequency on liquid-cooled operation)
Chipset	AMD X570
Memory	64GB (16GBx4) DDR4-3600 EXPO OC UDIMM (Max. 128GB)
Expansion Slots	PCI-E 3.0 x16 Slot x2 (Speed for x16/x8)
SSD	500GB NVMe M.2 PCI-E SSD x1 (Max.2), M.2 SATA SSD board Kits (Max.2, optional)
HFT I/O Card	Solarflare X2522-25G-Plus or SFN8522-Plus ultra low latency NIC x1 (option for max.2)
Input / Output	ASPEED AST2500 Dedicated IPMI RJ45 LAN port x1 On-board with RJ45 LAN port x1 (1Gbps x1) * Option : Additional 1Gbps RJ45 LAN port x 1 USB 2.0 port x1 (Rear), USB 2.0 port x2 (Front) VGA port x1 * Option : COM port x1
Power Supply	750W high efficiency redundant PSU platinum level
OS	Preinstall optimized RHEL 8.x Linux OS * Option : Windows Server 2019 / 2022
Warranty	2 years hardware warranty 1 year on-side service. (limited in Taiwan)

欲瞭解更多相關資訊，歡迎與我們連繫：(02)2912-0128