

**ARAVision**

## Cheetah Windrider 1U CPU Overclocked HFT Server

The ultimate craftsmanship of the air-flow cooling & thermal flow architecture

### Key Features

- \* Can effectively improve order & market making & cancel order speed
- \* 8 CPU cores (8 P-cores & 0 E-cores), all P-cores frequency are optimized for 5.5GHz, let the strategy trigger in the best state
- \* 10 CPU cores (8 P-cores & 2 E-cores), all P-cores frequency are optimized for 5.5GHz, 2 E-cores for OS & back-ground processes
- \* Excellent air-flow cooling and thermal flow only in 1U form
- \* Most 2 x high-speed I/O slots for different AP designed architectures
- \* Up to 70% ~ 90% performance than traditional general purposed server
- \* Considerations for global environmental protection & sustainable use
- \* The ultimate craftsmanship of the air-flow cooling & thermal flow architecture, with high performance and best ESG compliance



### Cheetah Windrider

All with 8/10 physical cores, provide air-flow cooling 1U architecture

#### ► Cheetah Windrider-13K900 series

Windrider-13K908 : all P-cores can be fixed at 5.5GHz cpu frequency

Windrider-13K910 : all P-cores can be fixed at 5.5GHz cpu frequency  
2 E-cores can be fixed at 4.3GHz cpu frequency

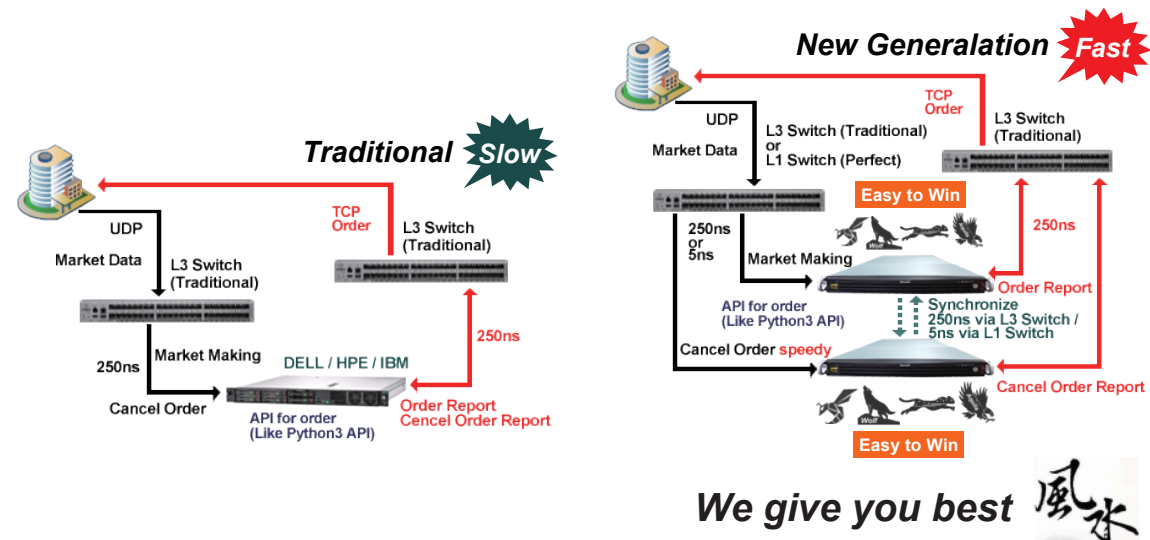
#### ► Cheetah Windrider-13K700 series

Windrider-13K708 : all P-cores can be fixed at 5.3GHz cpu frequency

Windrider-13K710 : all P-cores can be fixed at 5.3GHz cpu frequency  
2 E-cores can be fixed at 4.2GHz cpu frequency



\* We Provide L3 cache frequency up to 4800MHz stable, and memory frequency 5200MHz via DDR5 type



We give you best 風水



## 三階段壓力對應的高效頻率 (Linux 使用 Prime 95 進行 CPU 100% 使用率的壓力測試)

- 0. Less Loading : 僅有背景程序與程式執行 (可視為Idle狀態)
- 1. Light Loading : 少許或瞬間觸發下單之壓力狀態 (交易時段較常遇到的狀態)
- 2. Middle Loading : 量多或持續觸發下單之壓力狀態 (交易時段偶爾遇到的狀態)
- 3. Heavy Loading : 密集且持續觸發下單之壓力狀態 (交易時段較少遇到的狀態)

Cheetah Windrider 即便遇到巨量且密集的壓力, 仍持續維持穩定的超頻頻率運作

System BIOS Ver. 10.03	Edited:2023/3/3	MLC Test			Less Loading (None P95)		Light Loading P95		Middle Loading P95		Heavy Loading P95 (Bottom)		More Than 6hrs P95 (Bottom)	
		Setting	Cores	1st info (ns)	3rd info (ns)	P (GHz)	E (GHz)	P (GHz)	E (GHz)	P (GHz)	E (GHz)	P (GHz)	E (GHz)	P (GHz)
Cheetah Winrider-13K708 *	8P+0E	8	5.2 / 5.3	11.8	5.3	x	5.3	x	5.3	x	5.3	x	5.3	x
Cheetah Winrider-13K710 *	8P+2E	10	5.2 / 5.3	11.8	5.3	4.2	5.3	4.1	5.3	4.1	5.3	4.1	5.3	4.0
Cheetah Winrider-13K908 *	8P+0E	8	5.3 / 5.4	11.9	5.5	x	5.5	x	5.5	x	5.5	x	5.5	x
Cheetah Winrider-13K910 *	8P+2E	10	5.3 / 5.4	11.9	5.5	4.3	5.5	4.2	5.5	4.2	5.5	4.2	5.5	4.2

### 氣冷式散熱架構 極致工藝展現

The ultimate craftsmanship of the air-flow cooling & thermal flow architecture



## Cheetah Windrider

<b>Form Factor</b>	1U chassis with rail kit	<b>Expansion Slots</b>	PCI-E 3.0 x16 (x8 speed) slot x2 (* Option : PCI-E 3.0 x16 (x1 speed) slot x1) * Can be changed to PCI-E 4.0 x16 slot x2 (speed for x8/x8) for option in the future
<b>Processor</b>	<b>Cheetah Windrider-13K900 Series</b> Intel Core i9-13900KF (Raptor Lake) 8P+16E cores 36MB cache base 3.0GHz CPU freq. x1 (All P-cores are 5.5GHz CPU frequency on air-flow cooling operation) Provide 2 models for different purpose choice : (1) Windrider-13K908 : Pure 8P cores, total 8 cores (2) Windrider-13K910 : 8P+2E cores, total 10 cores  <b>Cheetah Windrider-13K700 Series</b> Intel Core i9-13700KF (Raptor Lake) 8P+8E cores 30MB cache base 3.4GHz CPU freq. x1 (All P-cores are 5.3GHz CPU frequency on air-flow cooling operation) Provide 2 models for different purpose choice : (1) Windrider-13K708 : Pure 8P cores, total 8 cores (2) Windrider-13K710 : 8P+2E cores, total 10 cores	<b>SSD</b>	500GB NVMe M.2 PCI-E SSD x1 (Max.1), * Option : M.2 SATA SSD board Kits (Max.2)
<b>Chipset</b>	Intel Z690	<b>HFT I/O Card</b>	Solarflare X2522-25G-Plus or SFN8522-Plus ultra low latency NIC x1 (option for more)
<b>Memory</b>	64GB (32GBx2/16GBx4) DDR5-5200 LP DIMM (Max.128GB)	<b>Input / Output</b>	ASPEED AST2600 Dedicated IPMI RJ45 LAN port x1 On-board with RJ45 LAN port x1 (1Gbps x1) * Option : Additional 1Gbps RJ45 LAN port x 1 USB 3.0 port x1 (Rear), USB 2.0 port x2 (Front) VGA port x1 * Option : COM port x1
		<b>Power Supply</b>	750W high efficiency redundant PSU platinum level
		<b>OS</b>	Preinstall optimized CentOS Linux 8 * Option : Red Hat Enterprise Linux 8.x, Windows Server 2022
		<b>Warranty</b>	2 years hardware warranty (air-flow edition) 1 year on-side service. (limited in Taiwan)

已取得多國專利

中華民國(臺灣)專利 Patents of Republic of China (Taiwan)  
專利號碼 (Patent No.): 發明第 **1777641**、號新型第 **M618657** 號、 新型第 **M620968** 號

中華人民共和國新型專利 Patents of P.R.O.C (China) 德國新型專利 Patents of Germany  
專利號碼 (Patent No.): **ZL 2022 2 0562480.0**、 **ZL 2022 2 0538828.2** 專利號碼 (Patent No.): **20 2022 103 531**



欲瞭解更多相關資訊, 歡迎與我們聯繫: (02)2912-0128



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