ARAVision
Bumblebee Pre-FPGA HFT Server

Key Features

* Born for PreFPGA & FPGA ultra low latency requirements
* Extreme I/O speed for data transfer, support any size FPGA card
* Provide Max. 8 CPU cores, all cores frequency are optimized for 4.7GHz
* Optimized air-flow cooling and thermal flow in 1U Form
* Most 3 x high-speed I/O slots for different AP designed architectures
* Up to 40%~55% performance than traditional general purposed server

The amazing 1U FPGA HFT server lets the next generation of high-frequency trading battlefield come early.

Excellent design and materials provide you perfect weapons for planning on trading logic and risk management.

The Bumblebee Combat Series is best for speed, stability and flexibility, and can be matched for your demand.

* Easy to build-in Xilinx ALVEO FPGA Card

Bumblebee Combat Series Combat-88G / Combat-86G

Form Factor	1U chassis with rail kit
Processor	**(A) Combat-88G** Intel Xeon E-2288G (Coffee Lake) 8 cores 16MB cache 3.7GHz (All cores for 4.7GHz Max. OC stable via BIOS & OS Setting) **(B) Combat-86G** Intel Xeon E-2286G (Coffee Lake) 6 cores 12MB cache 4.0GHz (All cores for 4.6GHz Max. OC stable via BIOS & OS Setting)
Chipset	Intel C246
Memory	64GB (16GBx4) DDR4-3200 ECC UDIMM (Max. 128GB)
Expansion Slots	PCI-E 3.0 x16 slot x1 or PCI-E 3.0 x8 (one in x16) slot x2 (FH) PCI-E 3.0 x4 (in x8) slot x1 (LP)
SSD	500GB NVMe M.2 PCI-E SSD x1 (Max.2) * Option : 2.5" SATA III SSD (Max.4)
HFT I/O Card	Solarflare X2522-25G-Plus or SFN8522-Plus ultra low latency NIC x1 (option for more) * Option (1) : EXABLAZE ExaNIC X10 / X25 server I/O card x1 * Option (2) : Mellanox full series ethernet NIC x1
FPGA Card	* Option (1) : Xilinx ALVEO U25 / U50 accelerator card x1 (Max. 2) * Option (2) : Xilinx ALVEO U200 / U250 / U280 accelerator card x1 (Upgrade to 750W redundant PSU is required)
Network	Intel I210-AT (on-board) with RJ45 LAN port x2
IPMI	ASPEED AST2500 IPMI with dedicated RJ45 LAN port x1
USB (Rear)	USB 3.1 port x2 , USB 2.0 port x2
Power Supply	500W high efficiency redundant PSU platinum level * Option : 750W high efficiency redundant PSU platinum level
Raid Card	* Option : Hardware Raid Card with SFF8643 to 4 SATA internal cable x1 can set in
OS	Preinstall optimized CentOS Linux 7.x * Option : Red Hat Enterprise Linux 7.x / 8.x, Windows Server
Warranty	3 years hardware warranty 1 year on-side service. (limited in Taiwan)