biqmind

Intel® Xeon® processor-based performance & peace of mind for your industrial edge computing needs

BIQMIND HARSHPRO™ SERVER

PERFORMANCE

- True server performance with Intel® Xeon® processor-based CPU#
- Faster storage with NVMe SSDs (7X faster than SATA storage)

RELIABILITY

- No moving parts
- Passive cooling
- Components with wide band temperature support

MANAGEABILITY

- Integrated BMC Support
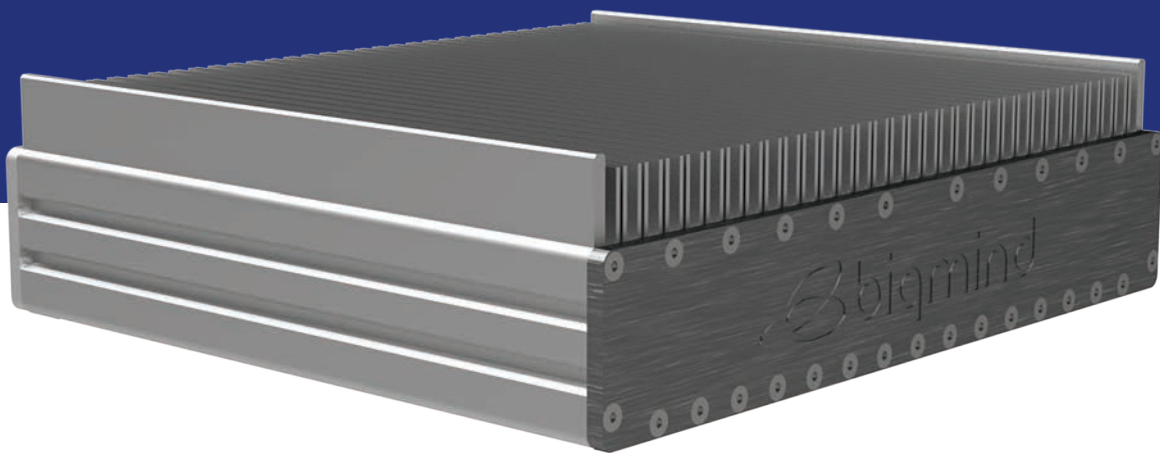- Redfish®, KVM over IP, IPMI 2
- UEFI boot

SUPPORT

- Replace not repair
- Lower total cost of ownership
- Extended product lifecycle

Biqmind HarshPro™ Server sets a new precedent in harsh environments for computing performance which delivers server-class performance, reliability and manageability. The unique challenges and complications of edge computing in harsh conditions can now be addressed with true server-class, Intel® Xeon® processor-based power.

Be it conditions such as extreme cold, heat, or altitude; Biqmind HarshPro™ Server is built with components that provide resistance to corrosion, humidity, and wide temperature ranges. The server's IP66 rated enclosure ensures protection from water and dust.

Run your mission-critical edge computing applications and real-time data analytics with minimal latency, and total peace of mind.

SERVER SPECIFICATIONS

Category	Subcategory	Value	
System Chipset	**CPU**	Intel® Xeon® D-1539	
	Maximum speed	1.6 GHz	
	Max Turbo Frequency	2.2 GHz	
	L3 Cache	12 MB	
	Cores	8	
	Threads	16	
	BIOS	AMI	
Memory	**Technology**	Dual channel 2133 MHz ECC DDR4	
	Slot	4 x RDIMM (up to 32 GB per slot) or UDIMM (up to 16 GB per slot), 288 pins	
	Maximum Capacity	128 GB	
Baseboard Management Controller (BMC)	**Chipset**	Aspeed AST2500	
	Firmware	AMI MegaRAC®	
	Protocols	Redfish®, KVM over IP, IPMI 2	
Ethernet	**Network Controllers**	1 GbE Intel® i210IT	
		10 GbE SFP+ Intel® SoC	
	Interfaces	2 x PoE++ RJ45 (PoE 802.3bt Type 4)	
		2 x SFP+	
Expansion slots	**M.2 (2240/2260/2280/22110)**	6 x M.2 M Key 1 x M.2 E Key (for WiFi)	
Storage	**Technology**	M.2 NVMe	
	Slot	6 x M.2 slots (256 GB/512 GB/1 TB)	
	Maximum Capacity	6 TB (6 X 1 TB)	
Display	**Interface**	KVM over IP	
LED and Switch	**Button / LED**	Combined LED status & pushbutton	
Power	**Input Voltage**	12VDC (reverse polarity protection)	
	Power Consumption	Typical: 80 watts, Maximum: 140 watts	
Environment	**Temperature**	Operating	Non-operating
		-20C to 50C	-40C to 85C
	Humidity	Operating	Non-operating
		10 to 90 %RH	10 to 90%RH
	Vibration	5 Grms, 5-500 Hz, 3 Axes	
	Shock	50 Grms, half-sine 11 ms duration	
	IP rating	IP66	
	Altitude	Up to 4572 meters above sea level	
Mechanical	**Dimensions**	404 mm (W) x 313 mm (D) x 100 mm (H)	
	Weight	9 kg	
	Installation	Wall mount, desk, DIN rail	
OS Support		CentOS v7.4, Red Hat® Enterprise Linux® (RHEL) v7.4/7.5/7.6, Red Hat® Enterprise Linux® (RHEL) Atomic v7.4, Windows Pro 10	
Certifications*		EMC, FCC, CE, WEEE, UL, RoHS	

*Certifications pending
Above specifications and appearance
may be subject to change

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Applications:
autonomous vehicles, business continuity, building automation, connected factories (data collection & analysis), disaster recovery, drilling platforms, emergency response, process automation, robotics, rugged data back-up, smart power grid, telecom base station edge computing, windfarms, SCADA

Industries:
agriculture, emergency response, oil and gas, power distribution and generation, transportation (rail/road/ship), logistics/warehousing, telecommunications, mining, utilities (electrical, water)

ABOUT BIQMIND
Biqmind offers leading-edge technologies to companies that want to deliver rapid innovation, but are constrained by lack of expertise or in-house resources. Our software, services and hardware can be applied where there is a need to cost-effectively extend, converge and build solutions rapidly and deliver them to the operational edge.

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PERFORMANCE | RELIABILITY | MANAGEABILITY | SUPPORT