

## Stallion – Rugged Rack Mount Server / Workstation

Alligator's Stallion Series is ideal choice for high end computing meeting Rugged environmental standards. The Stallion PCI is a 19" rack mountable integrated with passive backplane with mix of PCI / PCIe bus slots.

The Stallion is equipped with latest Intel Core i7/Xeon motherboard which provides Ethernet, USB, RAID, Serial Ports and PCI/PCIe expansion capabilities.

The card area is provided with card hold down brackets to secure from shock and vibration for the applications that demands continuous and reliable operation in harsh environment.

The Stallion series systems has rear I/O configuration as per the customer needs, depending upon the application specific I/O terminations through MIL series connectors. Cooling arrangement of the system is realized through cooling fans provided near the card area and clear airflow is maintained through the card slots. The heat is dissipated through the honeycomb vent provided at the rear of the chassis.

The front of the system provides the accessibility to storage devices, status indications & ON/OFF switch controls. All Stallion series systems are used for Shipboard, airborne, and ground mobile applications.



### FEATURES

- Rugged Air Cooled Server/Workstation
- 19", 4U Rack Mount/ Tray Mount with Shock Isolation
- Latest Intel Multi-core Core i7 / Xeon
- PCI/PCIe Expansion Slots
- All aluminum designed for harsh environments
- AC / DC Voltage Input options
- Up to 800 Watts Power
- Optional redundant power supply
- Switch / Indications on front
- Compliant to MIL-STD-810F
- EMI/EMC as per MIL-STD-461E
- Integrated Cooling fans
- I/O termination at rear through MIL-STD-C38999 Series / MIL-D Connectors

### Processor

CPU	<ul style="list-style-type: none"> <li>• Intel® Xeon® processor E5-26xx v3 family</li> <li>• Dual Socket R3 (LGA 2011)</li> </ul>
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### System Bus

QPI up to 9.6 GT/s

### System Memory

Memory Capacity	<ul style="list-style-type: none"> <li>• 16 x 288-pin DDR4 DIMM slots</li> <li>• Up to 2TB ECC 3DS LRDIMM, 512GB ECC RDIMM</li> </ul>
Memory Type	2400+/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
Error Detection	Corrects single-bit errors

### Environmental Conditions

Operating Temperature: -10°C to 60°C  
Storage Temperature: -20°C to 70°C  
Operating Humidity: 5%-95% NC  
EMI/EMC: As per MIL-STD-461E (Airforce & Navy)  
Shock: 40g & Vibration: 2g (20-2000Hz)

### System BIOS

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|---------------|--|
| BIOS Features | <ul style="list-style-type: none"> <li>• Plug and Play (PnP)</li> <li>• PCI 2.3</li> <li>• ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>• USB Keyboard support</li> <li>• SMBIOS 2.7.1</li> <li>• UEFI 2.3.1</li> </ul> |
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## Specifications

PC Health Monitoring		Management	
FAN	<ul style="list-style-type: none"> <li>6 x fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>	Software	<ul style="list-style-type: none"> <li>Intel® Node Manager 3.0</li> <li>IPMI 2.0</li> <li>NMI</li> <li>SPM</li> <li>SSM</li> <li>SUM</li> <li>Watch Dog</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Control for 8x Fan Connectors</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>	Power Configurations	<ul style="list-style-type: none"> <li>ACPI / APM Power Management</li> <li>Power-on mode for AC power recovery</li> </ul>
		Expansion Slots	
		PCI-Express	<ul style="list-style-type: none"> <li>2x PCI-E 3.0 x16</li> <li>4x PCI-E 3.0 x8</li> <li>1x PCI-E 3.0 x4 (in x8)</li> </ul>
LED	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> <li>Suspend static indicator LED</li> <li>UID/Remote UID</li> </ul>	Dimensions in MM	
		Width	482.6
		Height	177
		Depth	492
		On-Board Devices	
		Input / Output	
Chipset	Intel® C612 chipset	SATA	10x SATA3 (6Gbps) ports
AHCI SATA	SATA3 (6Gbps); RAID 0, 1, 5, 10	LAN	<ul style="list-style-type: none"> <li>4x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>	USB	<ul style="list-style-type: none"> <li>2x USB 3.0 ports</li> <li>2x USB 2.0 ports</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 Quad Gigabit Ethernet LAN</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> </ul>	Video	1x VGA Connector
		Serial Port	<ul style="list-style-type: none"> <li>1x Fast UART 16550 serial</li> <li>2x COM Ports</li> </ul>
		DOM	2 x SuperDOM (Disk on Module) ports
		TPM (option)	1 x TPM Header

**Ordering Information** - Part Number: Contact Factory

\* Specifications are subject to change without prior V1-0816

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