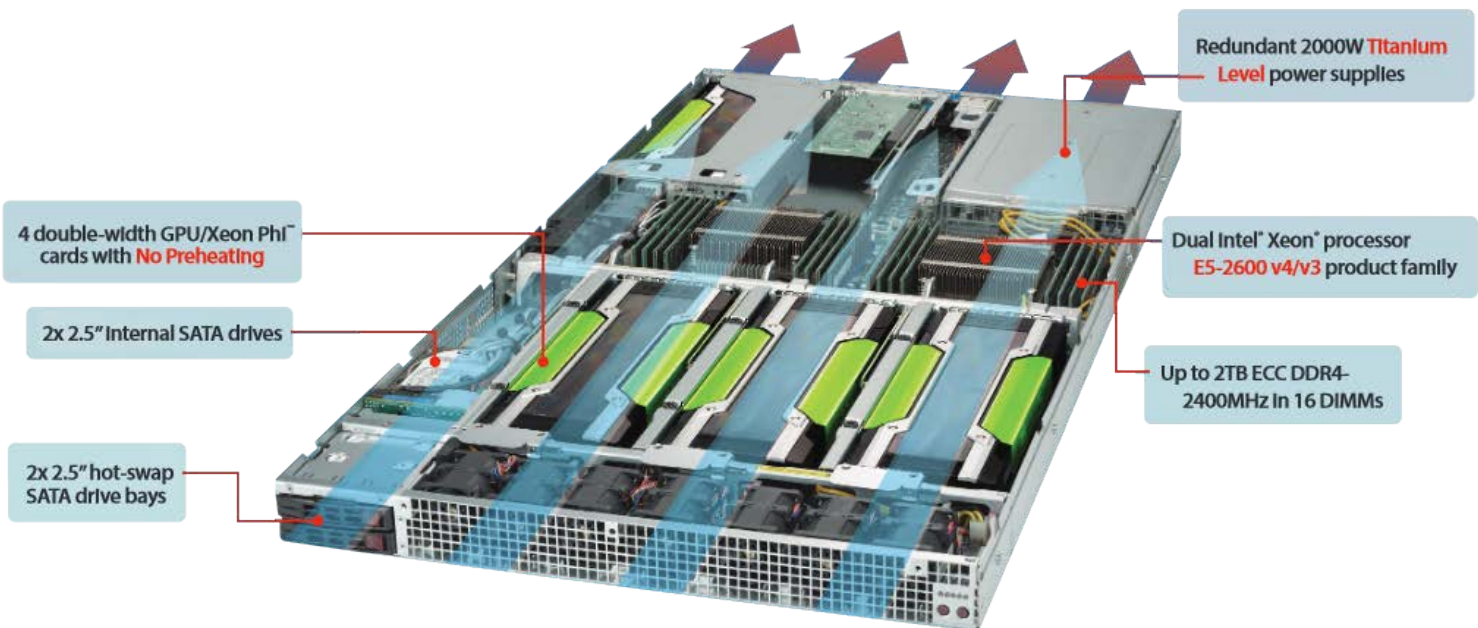


*Equus delivers market leading high density GPU configurations using the latest NVIDIA and Intel Xeon Phi™ technologies.*

Equus continues to enable a highly scalable, energy efficient future for parallel computing with our latest supercomputing solution. Utilizing our expertise in maximizing compute density, performance and power efficiency, Equus has configured the following server for high GPU density and performance in a 1U server. This 1U server can hold 4 NVIDIA Tesla K80 GPUs, and uses 9 standard and 2 optional 4cm heavy duty fans to keep this powerful server cool. This system is currently configured with Dual Xeon® E5-2650v4 12-Core 2.2Ghz 30M Cache, 256GB DDR4 2400 RDIMM, Intel Dual Port 10GbE SFP+ with Optics and Single Port Mellanox ConnectX-3 VPU Pro for 10/40/56Gb connectivity, Micron 5100 Pro 240GB SATA SSD boot drive, Tool less Quick Rails, and DCMS Data Center Management Software with iKVM. This server will run in up to 35 degree ambient temperature allowing for warm datacenter operation to save on cooling costs.

**Key Benefits:**

- A CPU direct connect design optimizes signal integrity and airflow to eliminate the GPU pre-heating, PCI-E extension cables, and re-drivers.
- Reduced complexity, cost, power consumption and latency as compared to other vendor solutions
- Higher power efficiency by using fully redundant Titanium Level (96%+) power supplies
- Supports up to 4x 2.5" drive bays with fully redundant power supplies
- Uniquely supports NVIDIA GeForce GPU cards for customer applications.



## Dense GPU Server Configuration Details



### Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; QPI up to 9.6GT/s
2. Up to 512GB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz ; 16x DIMM slots
3. 4x PCIe 3.0 x16 slots (4x GPU/ Xeon Phi cards opt.), 2x PCIe 3.0 x8 (in x16) LP slot
4. Intel i350 Dual port GbE LAN
5. 2x 2.5" Hot-swap drive bays, 2x 2.5" internal drive bays
6. 9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
7. 2000W Redundant Power Supplies **Platinum Level (94%+)**

Quantity	Vendor	Description
1	Supermicro	Supermicro 1028GQ-TR 1U Xeon E5-2600v4 4xGPU DDR4 2x 2.5"HS 2000W RPSU
2	Intel	E5-2650V4 2.2GHZ 30M 12-Core Xeon CPU
8	Crucial	32GB DDR4 2400 ECC REG
1	Mellanox	Mellanox ConnectX-3 10/40 GbE / 56Gb Infiniband Network Adapter
1	Intel	2port SFP+ 10G PCIe3.0x8 Direct Attach Twinax
2	Intel	INTEL DUAL RATE SFP+ MODULE XFP 1x10GBASE-SR
1	Micron	Micron 5100 PRO 240GB SATA 2.5
4	NVIDIA	NVIDIA Tesla K80 2x12GB/DDR5 PCI-E3.0 300W
1	Supermicro	Power Cable for Teslaq K80 1028GQ-TR
2	Supermicro	Power Cable for Teslaq K80 1028GQ-TR
1	Supermicro	Power Cable for Teslaq K80 1028GQ-TR
2	Supermicro	40x40x56 mm 23.3K-20.3K RPM Counter-rotating Fan
1	Supermicro	DataCenter management package (per node license)
1	EQUUS	Mid Server - 3 Year Onsite Warranty

## Management Software

Manage and Maintain Servers with Included and Optional Management Software

- Remotely manage servers deployed worldwide.
- Manage server health, power consumption and firmware remotely using agent and agent-less mechanisms.
- Manage hardware with no impact on applications.
- Perform monitoring, configuration and update operations without affecting application performance or continuity.
- Using out-of-band (OOB) utilities.
- Server management functions accessed through utilities' command line interfaces to support existing datacenter automated management frameworks.
- Additionally, our server management utilities provide seamless integration with Nagios and other industry standard plugins.

Standard Management	OOB Management	DCMS Management
Included with Server	Includes Standard Management Plus	Includes Standard + OOB Management Plus
KVM/JAVA KVM/HTML5 support IPMI 2.0 DCMI Web Based GUI In-band BIOS updates BMC FW updates LDAP/Active Directory Virtual Media SNMP Alerts SMTP Alerts SMASH and CLP Support VLAN Support Event Log Serial over LAN Remote Power Control Hardware Health Monitoring HTTPS DHCP SSH CLI Dedicated NIC Local Users Embedded Remote Support Agentless Management Role Based Authority Multiple User Profiles IPv6	Out-of-BAND System Checks, System Utilization, Asset Information OOB/in-band BIOS/BMC Management Getting/Clearing Event Log Trusted Platform Module Provisioning Mount/Unmounts ISO images from SAMBA/HTTP Remote Screenshot Capture Remote Keyboard Operation Redfish APIs Changing system boot order	Configuring, Mousemode, Fanmode, Radius, AD Through APIs Remote Syslog Restful APIs Scripted Virtual Media Unified Hardware Management Remote Power Management/Monitoring Dynamic DNS 3rd-party SW Integration through RedFish 24/7 Health and Power Management Level II Support on utilities vCenter, SCOM and OpenStack Plugins Feature Updates and Support WS-MAN API
Cost: Free	Cost: Pay Fee	Cost: Pay Fee