**LOT 1**

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| **Feature** | **Technical Specification** |
| Processor | Built in 2rd Generation CPU intel® Xeon® processors  Up to two Intel Xeon Processors, up to 28 cores per processors.  Number of built in processor 2 intel Xeon Gold processor |
| Memory | 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 3TB max Up to 12 NVDIMM, 192 GB Max Supports registered ECC DDR4 DIMMs only   * **1024GB Ram or 1Tb,** * **128 GB RAM / per slot, or 8 pcs** |
| Storage controllers  Internal Boot | Internal Controllers: PERC H330, H730P, H740P, HBA330  External Controllers: H840, 12 Gbps SAS HBA  Software RAID: S140  Boot Optimized Storage Subsystem (BOSS): HWRAID 2 x M.2 SSDs 240GB, 480GB Internal Dual SD Module1 |
| Storage | Front drive bays: Up to 16 x 2.5” SAS/SATA (HDD/SSD) max 122.88TB or up to 8 x 3.5” SAS/SATA HDD max 128TB Optional DVD-ROM, DVD+RWCD drive required DVD+R   * **32TB, 2.5” SAS 10K/ per slot 4Gb** |
| I/O Ports | Network daughter card options  4 x 1GE or 2 x 10GE + 2 x 1GE or 4 x 10GE or 2 x 25GE  Front ports: Video, 2 x USB 2.0, available USB 3.0, dedicated IDRAC Direct Micro-USB  Rear ports: Video, serial, 2 x USB 3.0, dedicated iDRAC network port  Video card: VGA  Riser options with up to 8 PCIe Gen 3 slots, maximum of 4 x 16 slots. |
| Security | TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot System Lockdown Secure erase |
| Power supplies | Titanium 750W, Platinum 495W, 750W, 1100W, 1600W, and 2000W 48VDC 1100W, 380HVDC 1100W, 240HVDC 750W (China/Japan) Hot plug power supplies with full redundancy Up to 6 hot plugs fans with full redundance |
| Dimensions | Form factor: Rack (2U) Max depth: 715.5 mm |
| Embedded management | IPMI 2.0 compliant iDRAC9 with Lifecycle Controller (Express, Enterprise) Quick Sync 2 wireless module optional |
| Integration and connections | Integrations: Microsoft System Center, VMware vCenter™, BMC Software Connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool/OMNIbus, IBM Tivoli Network Manager, CA Network and Systems Management |
| Supported operating systems | Canonical: Ubuntu LTS, Citrix: XenServer; Microsoft Windows Server: with Hyper-V, Red Hat: Enterprise Linux, SUSE: Linux Enterprise Server, VMware: ESXi. |

**LOT 2**

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| **Feature** | **Technical Specification** |
| Processor | Built in 2rd Generation CPU intel® Xeon® processors  Up to two Intel Xeon Processors, up to 28 cores per processors.  Number of built in processor 2 intel Xeon Silver processor |
| Memory | 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 3TB max Up to 12 NVDIMM, 192 GB Max Supports registered ECC DDR4 DIMMs only   * **512GB Ram** * **128 GB RAM / per slot, or 4 pcs** |
| Storage controllers  Internal Boot | Internal Controllers: PERC H330, H730P, H740P, HBA330  External Controllers: H840, 12 Gbps SAS HBA  Software RAID: S140  Boot Optimized Storage Subsystem (BOSS): HWRAID 2 x M.2 SSDs 240GB, 480GB Internal Dual SD Module1 |
| Storage | Front drive bays: Up to 16 x 2.5” SAS/SATA (HDD/SSD) max 122.88TB or up to 8 x 3.5” SAS/SATA HDD max 128TB Optional DVD-ROM, DVD+RWCD drive required DVD+R   * **24TB, 2.5” SAS 10K/ per slot 4Tb** |
| I/O Ports | Network daughter card options  4 x 1GE or 2 x 10GE + 2 x 1GE or 4 x 10GE or 2 x 25GE  Front ports: Video, 2 x USB 2.0, available USB 3.0, dedicated IDRAC Direct Micro-USB  Rear ports: Video, serial, 2 x USB 3.0, dedicated iDRAC network port  Video card: VGA  Riser options with up to 8 PCIe Gen 3 slots, maximum of 4 x 16 slots. |
| Security | TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot System Lockdown Secure erase |
| Power supplies | Titanium 750W, Platinum 495W, 750W, 1100W, 1600W, and 2000W 48VDC 1100W, 380HVDC 1100W, 240HVDC 750W (China/Japan) Hot plug power supplies with full redundancy Up to 6 hot plugs fans with full redundance |
| Dimensions | Form factor: Rack (2U) Max depth: 715.5 mm |
| Embedded management | IPMI 2.0 compliant iDRAC9 with Lifecycle Controller (Express, Enterprise) Quick Sync 2 wireless module optional |
| Integration and connections | Integrations: Microsoft System Center, VMware vCenter™, BMC Software Connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool/OMNIbus, IBM Tivoli Network Manager, CA Network and Systems Management |
| Supported operating systems | Canonical: Ubuntu LTS, Citrix: XenServer; Microsoft Windows Server: with Hyper-V, Red Hat: Enterprise Linux, SUSE: Linux Enterprise Server, VMware: ESXi. |

**LOT 3**

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| **Feature** | **Technical Specification** |
| Cisco Switch | Cisco Catalyst 9200 Series 24 port PoE manageable switch |