

SGI® UV™ 300H System Specifications

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System Components	
Processors	<ul style="list-style-type: none"> Intel® Xeon® processor E7-8890 v2 product family 15-core CPUs, 2.8 GHz
Memory	<ul style="list-style-type: none"> 16 GB or 32GB 1333 MT/s ECC DDR3 DIMMs 1, 1.5, 2 or 3TB per 4-socket chassis
Disk Drives	<ul style="list-style-type: none"> 1.8" SSD Boot drives (2) DVD or DVD-RW
Interconnect	<ul style="list-style-type: none"> NUMalink® 7 (NL7; 14.94GB/s bidirectional)
Environmental (Operating)	<ul style="list-style-type: none"> 41-95F (5-35C) up to 1525m (5000 ft.) Max 10,000 ft. (3050 m)
Cooling	<ul style="list-style-type: none"> Ambient air-cooled
Rack	
SGI Rack Dimensions (H x W x D)	<ul style="list-style-type: none"> 78.75" (42U) x 28" x 45.5" 200cm x 71cm x 115.6cm
Power	<ul style="list-style-type: none"> Single-phase 200/230VAC, 30/32 Amps, OR Three phase 208VAC, 60 Amps or 400VAC, 32 Amps
Cooling	<ul style="list-style-type: none"> Open-looped airflow OR Optional water-cooled: water temp. 45-60F (7.2-15.6C)
3rd party rack	<ul style="list-style-type: none"> Supported for UV300 configurations up to 32 sockets
Enclosure Specifications	
Dimensions (H x W x D)	<ul style="list-style-type: none"> 8.64" (5U) x 17.5" x 31.8" 22cm x 44.5.cm x 80.8cm
Weight (maximum)	<ul style="list-style-type: none"> 136 lbs (62kg)
Acoustical Noise (typical)	<ul style="list-style-type: none"> 77dBA
Heat Dissipation to Air	<ul style="list-style-type: none"> 7.64 kBTU/hr (0.64 Tons) , 5.22KW maximum
Power	<ul style="list-style-type: none"> Four 12VDC 1600W, 180-264VAC input voltage (N+1), or (N+N)
Cooling	<ul style="list-style-type: none"> Eight hot-pluggable, 80mm, 12VDC axial cooling fans
Air flow (Front to Rear)	<ul style="list-style-type: none"> Max 650 CFM (1104 m3/hr) Typical 475 CFM (807 m3/hr)
Administrative Network	<ul style="list-style-type: none"> One Rack Management Controller
CPU	<ul style="list-style-type: none"> 4 Intel® Xeon® processor E7-8800 product family
Memory	<ul style="list-style-type: none"> 24 DIMM Slots per Intel® Xeon® CPU
IO expansion options	<ul style="list-style-type: none"> 8-slot option plus disk riser (base chassis) Four SATA or SAS 2.5" HDD or SSD slots Up to (4) x8, (4) x16 full height slots 12-slot option (expansion chassis) Up to (8) x8, (4) x16 full height slots
Base I/O Features	<ul style="list-style-type: none"> Two 1.8" SATA SSD slots, 6GB/s Four USB 2.0 ports One Gb Ethernet port
System Expansion	<ul style="list-style-type: none"> 4 to 32 sockets Up to 24TB of coherent shared memory

System Management	<ul style="list-style-type: none"> One per compute chassis IPMI v1.5/v2.0 interface, inc SNMP trap support via PEF Controls chassis power and reset sequencing Monitors chassis power, temperature and fans Fan speed controlled dynamically based on temperature variations Serial Port and VGA via KVM redirection
Board Management Controller	<ul style="list-style-type: none"> One per system IPMI v1.5/v2.0 interface, inc SNMP trap support via PEF Aggregates management network connections to chassis Controls system power and reset sequencing Self-monitors environment, reports health status Provides failure analysis tools
Rack Management Controller	<ul style="list-style-type: none"> 24x7 Remote System Management Service Memory Error Logging Predictive Failure Analysis for in-memory data Page Retirement for failed memory Hardware Event Notification
SGI Foundation Software	<ul style="list-style-type: none"> SAP HANA native system replication Automated failover through SUSE® Linux® Enterprise High Availability Extension and Red Hat® Enterprise Linux High Availability Add-on
High Availability (HA)	<ul style="list-style-type: none"> SAP HANA native system replication Automated failover through SUSE® Linux® Enterprise High Availability Extension and Red Hat® Enterprise Linux High Availability Add-on
Storage	
Persistent Storage (data and log files)	<p>Appliance</p> <ul style="list-style-type: none"> 21.6TB of 6Gb SAS storage (900GB x 24: RAID 6) per 4-socket chassis 2.5" SAS SSD(4) – configuration dependent <p>SAP HANA TDI Solution.</p> <ul style="list-style-type: none"> SAP certified 3rd party hardware
System Software	<ul style="list-style-type: none"> SUSE® Linux® Enterprise Server for SAP 11 SP3 Red Hat® Enterprise Linux 6.6 for SAP HANA
Operating Systems	<ul style="list-style-type: none"> SUSE® Linux® Enterprise Server for SAP 11 SP3 Red Hat® Enterprise Linux 6.6 for SAP HANA

About SGI

SGI, the trusted leader in high performance computing (HPC), is focused on helping customers solve their most demanding business and technology challenges by delivering technical computing, Big Data analytics, cloud computing, and petascale storage solutions that accelerate time to discovery, innovation, and profitability.

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