

SGI® UV™ 300H System Specifications

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System Components	
Processors	<ul style="list-style-type: none"> Intel® Xeon® processor E7-8890 v3/v4 product family v3 processor: 18-core CPUs, 2.5 GHz (scale up only) v4 processor: 24-core CPUs, 2.2 GHz
Memory	<ul style="list-style-type: none"> 16GB, 32GB, or 64GB up to 1600 MT/s ECC DDR4 DIMMs 1, 1.5, 2, 3 or 4TB per 4-socket chassis (4TB for v4 processor only)
Disk Drives	<ul style="list-style-type: none"> 1.8" SSD Boot drives (2) DVD or DVD-RW
Chassis Interconnect	<ul style="list-style-type: none"> NUMalink® 7 (NL7; 14.94GB/s bidirectional)
Node Interconnect (Scale Out)	<ul style="list-style-type: none"> 10Gb Ethernet
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 UV300H configurations
System Specifications	
Scale Up Appliance	<ul style="list-style-type: none"> 1-8 5U Chassis + One Rack Management Controller
Scale Out Node	<ul style="list-style-type: none"> 2 5U Chassis + Rack Management Controller
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 44.5cm 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 E7-8890 v3/v4 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	<p>Scale Up</p> <ul style="list-style-type: none"> 4 to 32 sockets Up to 32TB of coherent shared memory <p>Scale Out</p> <ul style="list-style-type: none"> Up to 16 nodes inclusive of at least 1 failover node Up to 56TB total working space (4TB per node)

System Management	
Board Management Controller	<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
Rack Management Controller	<ul style="list-style-type: none"> One per system/node 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
SGI Foundation Software	<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
High Availability (HA)	<ul style="list-style-type: none"> SAP HANA native system replication (Scale Up) SAP HANA native Host (Node) Auto-Failover (Scale Out)
Storage	
Persistent Storage (data and log files)	<p>Scale Up Appliance (v3/v4 processor with 16GB or 32GB DIMMS)</p> <ul style="list-style-type: none"> 18-21.6TB of 6Gb SAS storage (900GB drives; RAID 6) per 4-socket chassis <p>Scale Up Appliance (v4 processor with 64GB DIMMS)</p> <ul style="list-style-type: none"> 43.2TB of 6Gb SAS storage (1.8TB drives; RAID 6) per 4-socket chassis <p>8 Socket Scale Out Node</p> <ul style="list-style-type: none"> 39.2TB of FiberChannel attached 6Gb SAS storage (1.8TB drives x 20; RAID 6, 1.6TB SSDs x2; RAID 1) per worker node Pair of HA NFS servers provided per Scale Out system Pair of 16Gb FiberChannel switches provided per Scale Out system <p>SAP HANA TDI Solution</p> <ul style="list-style-type: none"> SAP certified 3rd party hardware
System Software	
Operating Systems	<p>Intel® Xeon® processor E7-8890 v3 product family</p> <ul style="list-style-type: none"> SUSE® Linux® Enterprise Server for SAP 11 SP3, 12 SP1 Red Hat® Enterprise Linux 6.6, 6.7, 7.2 for SAP HANA <p>Intel® Xeon® processor E7-8890 v4 product family</p> <ul style="list-style-type: none"> SUSE® Linux® Enterprise Server for SAP 12 SP1 Red Hat® Enterprise Linux 7.2 for SAP HANA

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