

Unisys ES5000 Model 5300B G2 Blade Server

Product Information Sheet



Product Overview

The Unisys ES5000 Blade solution is a breakthrough in enterprise server architecture. Built from the ground up using Energy Smart and FlexIO technologies, the ES5000 is designed to combat data center sprawl and IT complexity. The ES5000 delivers one of the most energy efficient, flexible, and manageable blade server products on the market.

Unisys Blade Servers deliver performance and efficiency without compromise. Utilizing the latest Intel® Xeon™ 5500 Series Processors, the ES5000 Model 5300B G2 can adapt to your software in real time. Intel Turbo Boost Technology allows the 5300B G2 server to increase performance during peak workloads while Intel Intelligent Power Technology helps save energy by putting the server into lower power states when processing demands decrease.

Product Highlights

- Intel Xeon 5500 Series Processors deliver superior performance
- 50 percent more memory capacity than the Model 5300B G1 Blade Server
- Ultra-efficient power supplies deliver high levels of efficiency (>91 percent) even at low utilization

- Centralized management controllers
- Dynamic power management
- Real-time power reporting
- Integrated KVM to make server management quick and easy
- Completely passive, high available midplane that can deliver greater than 5Tbps of total I/O bandwidth
- Scalable I/O with end-to-end support for 10Gbe and FC8 solutions

Typical Deployment Scenarios

- **Virtualization** – consolidate multiple small application environments leveraging the ES5000 memory footprint and 128 processor cores
- **Web server** – with explosive growth in demand for web performance and more business critical applications, the highly manageable and available quad-core Xeon processor ES5000 is now web enabled and fits the bill
- **Consolidation** – scalability, easy serviceability, and availability make the ES5000 an ideal platform for server consolidation

System Specifications

Processors	<ul style="list-style-type: none"> Up to two Quad-Core or Dual-Core Intel Xeon 5500 series 60W, 80W and 95W TDP options 		
Chipset	<ul style="list-style-type: none"> Intel 5520 		
Memory slots	<ul style="list-style-type: none"> 12 DIMM slots supporting 1GB/2GB/4GB/8GB DDR3 DIMMs 		
Memory capacity	<ul style="list-style-type: none"> 96GB (8GB x 12) 		
LOM	<ul style="list-style-type: none"> Two embedded Broadcom® NetXtremell™ 5709C gigabit Ethernet NICs with failover and load balancing TOE (TCP Offload Engine, O/S support required) 		
Fabric expansion	<ul style="list-style-type: none"> 2–x8 PCIe mezzanine card option slots supporting: <ul style="list-style-type: none"> Dual-port FC4 (Emulex LPE1105M or Qlogic QME2472)) Dual-port FC8 (Emulex LPE1205-M) 10Gb Ethernet 		
Management	<ul style="list-style-type: none"> IDRAC with IPMI 2.0 Console redirection with virtual KVM (vKVM) and virtual media (vMedia) 		
Local storage controller options	<ul style="list-style-type: none"> SATA SAS6/IR (RAID 0/1) CERC6/IR (RAID 0/1 with cache) 		
Local storage HDD	<ul style="list-style-type: none"> Up to 2, 2.5" hot-pluggable SAS/SATA/SSD drives 7.2K RPM SATA: 80GB, 160GB, 250GB 10K RPM SAS: 73GB, 146GB 15K RPM SAS: 36GB, 73GB SSD: 25GB, 50GB 		
Video	<ul style="list-style-type: none"> ATI RNS0 (32MB memory) 		
USB	<ul style="list-style-type: none"> 2x USB 2.0 bootable ports on front 		
Console	<ul style="list-style-type: none"> Virtual KVM via iDRAC IPMI Serial over LAN (SoL) via iDRAC Rear-mounted iKVM switch ports (tierable) Front KVM ports on enclosure console panel 		
HA clustering	<ul style="list-style-type: none"> Fibre Channel and iSCSI based clustering options 		
Operating systems	<ul style="list-style-type: none"> Microsoft Windows Server 2008 with Hyper-V, Windows Server 2003 R2 Red Hat Enterprise Linux 4.5/5, SuSE Linux Enterprise Server 9/10 VMware Infrastructure 3, VMware 3.0, VMware 3.5 		
Environmental	<ul style="list-style-type: none"> Operating temperature 10°C to 35°C (50°F to 95°F); storage temperature -40°C to 65°C (-40°F to 149°F) Operating relative humidity (twmax=29C) 8 percent to 80 percent noncondensing; storage relative humidity 5 percent to 95 percent noncondensing (twmax=38C) Maximum humidity gradient 10 percent per hour, operational and nonoperational conditions Operating vibration 0.26Grms at 10Hz to 350Hz for 15 minutes; storage vibration 1.54Grms random vibration at 10Hz to 250Hz for 15 minutes Operating shock of 1 shock pulse of 41G for up to 2 ms; storage shock of 6 shock pulses of 71G for up to 2 ms 		
			<ul style="list-style-type: none"> Operating altitude -16 m to 3,048 m (-50 ft to 10,000 ft); storage altitude -16 m to 10,600 m (- 50 ft to 35,000 ft)
		Regulatory	<ul style="list-style-type: none"> FCC (U.S. only) Class A; ICES (Canada) Class A; CE Mark (EN 55022 Class A, EN55024, EN61000-3-2, EN61000-3-3); VCCI (Japan) Class A; BSMI (Taiwan) Class A; C-tick (Australia/New Zealand) Class A; SABS (South Africa) Class A; CCC (China) Class A; MIC (Korea) Class A; UL 60950-1; CAN/CSA C22.2 No. 60950-1; EN 60950-1; IEC 60950-1
		Chassis	<ul style="list-style-type: none"> The ES5000 Model 5300B blade server is only sold in conjunction with the Model 5110R blade enclosure. A total of 16 Model 5300B servers can fit into every 5110R enclosure. Half height blade dimensions are height=18.9 cm (7.4 in); width=SCM (2 in); depth=48.6 cm (19.2 in); and weight (maximum configuration)=5.2 through 6.4 kg (11.5 through 14.0 lbs) Chassis dimensions: <ul style="list-style-type: none"> Size: 10U high, rack mount Blades per chassis: 16 half height or 8 full height Total blades in 42U rack: 64 half height or 32 full height Total I/O module bays: 6 (3 redundant or dual fabrics) Total power supplies: 6 (3+3 redundant) Total fan modules: 9 (8+1 redundant) Management modules and interfaces: 2 CMCs (1+1 redundant), 1 iKVM, front control panel, graphical LDC control panel Width (not including rack ears): 447. Mm Height: 440.5 mm Depth (rear of ETA flange to rear of chassis): 753.6 mm Total system depth (front bezel to PS latch): 835.99 mm
		Power	<ul style="list-style-type: none"> The power distribution inside the Model 5110R Modular Server System consists of a 3+3 redundant power supply system, located in the rear bottom of the chassis. Each power supply is rated at 2360W. With current sharing between power supplies, the total system redundant power is approximately 6700W in a 3+3 power supply configuration.

For more information, contact your Unisys representative or visit <http://www.unisys.com>.

You can also contact us by email at: <mailto:cic@unisys.com>

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