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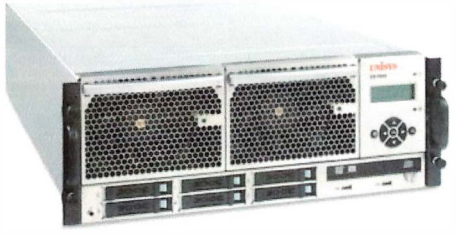
Unisys Enterprise Servers

The Unisys ES7000 Model 7600R Enterprise Server



The Unisys ES7000 Model 7600R Enterprise Server delivers mission-critical performance in standards-based environments. With the superior scalability of the ES7000 Model 7600R server you can be confident you have the power to succeed in tackling your most complex and demanding OLTP and database environments. Designed from the ground up to be highly available and scalable, the ES7000 Model 7600R server provides maximum flexibility for your current computing environment and positions you to easily accommodate future growth.

Product Highlights

- The latest Intel® Xeon® 6-core processors—with up to 96 cores in 16 sockets—power an architecture that provides unsurpassed scalability.
- A maximum of 1 TB of memory and a maximum of 56 PCIe slots per system deliver a balanced architecture to support enterprise-class performance.
- Hard partitioning provides partitioning at the cell level. Processors, memory and I/O can be grouped together to form partitions that provide hardware-enforced logical and environmental isolation, resulting in a secure application environment that delivers predictable performance.
- Industry-leading serviceability through front and rear server access, as well as truly usable hot-plug PCI-Express and hot-plug memory capabilities maximize server uptime.
- An industry-first digital, bulk power supply technology provides cutting-edge power efficiency.
- New Unisys Server Management software provides enhanced system management capabilities built on open industry standards.

Typical Deployment Scenarios

- **Database and OLTP** – the scalability and balanced architecture of the ES7000 Model 7600R server make it the perfect deployment platform for transaction-intensive OLTP and complex database environments. The ability to turn off processor cores means you can maximize your Microsoft® database performance by spreading 64 cores (the Microsoft core limit) and your workload across all 16 sockets of the system for ultimate database performance.
- **Consolidation and virtualization** – the ES7000 Model 7600R server provides the RAS (reliability, availability and scalability) necessary to consolidate multiple mission-critical servers onto one system with confidence. Support for premier virtualization technologies such as VMware®, Hyper-V™, Xen and Oracle VM position you to maximize your consolidation efforts.
- **Business intelligence** – you can build very large data warehouses in a more cost-effective Microsoft environment using SQL Server databases.

System specifications

CPU scalability	• 4, 8, 12 or 16 processors (four processors per cell, one to four cells)
CPU types	• 6-Core Intel Xeon Processor X7460 (2.66 GHz); 4-Core Intel Xeon Processor E7440 (2.4 GHz)
Operating system certifications	• Microsoft Windows® Server 2008 with Hyper-V, Datacenter, Enterprise and Standard Editions, x64 Version • Microsoft Windows Server 2003 R2, Datacenter, Enterprise and Standard Editions, x86 and x64 Versions • Select configurations validated by the Microsoft High Availability Program, the Failover Cluster Configuration Program and the Server Virtualization Validation Program • Red Hat Enterprise Linux® Advanced Platform 5.2 for x64 and 5.3 for x64 • SUSE Linux Enterprise Server 10 with SP2 for x64 and SUSE Linux Enterprise Server 11 for x64 • Oracle Enterprise Edition Linux 5.2 for x64/Oracle VM • VMware ESX 3.5 (update 2 with patches) and VMware vSphere (ESX 4.0) • Xen
Server management	• New Unisys Server Management software 2.1 • New ability to manage VMware virtual machine instances • New, improved user interface; "Call home for service" capability • Automated notification of firmware and integrated management software updates • SNMP notification
Partitions	• One (1) to four (4) independent partitions
I/O	• Per cell: 6 internal PCI-Express slots at 8X; Optional expansion I/O rack adds 9 external PCI-Express slots for a total of 14 slots per cell; Six internal SAS HDD • Per system: Maximum of 56 PCI-Express slots
Maximum memory	• Per cell: 256 GB (8 GB DIMMs) • Per system: 1 TB (8 GB DIMMs)
Cooling method (typical – maximum)*	• Forced convection: 275.4 CFM – 423.6 CFM (130L/s – 200L/s)
Dimensions (Std 19" rack mountable)	• 7" H x 17.6" W x 29" D (178 mm H x 447 mm W x 737 mm D)
Server access	• Front and Rear
Estimated weight (maximum)*	• 95 lbs per cell (43.1 Kg per cell)
Power (typical – maximum)*	• 100-120V 1 phase – 7.8A – 15A per cell • 200-240V 1 phase – 3.9A – 7.5A per cell • 0.78 KVA - 1.5 KVA per cell (758 Watts - 1450 Watts per cell)
Thermal (typical – maximum)*	• 2585 BTU – 4945 BTU/hr
Shock	• Operating: 3g/15ms wide, half-sine shock pulse; Nonoperating: 8g/15 ms wide, half-sine shock pulse
Vibration	• Operating: 0.01 in DA from 5 to 22 Hz; 0.5g from 22 to 300 Hz; at 0.5 oct/min • Nonoperating: 0.1 in DA from 5 to 10 Hz; 0.5g from 10 to 70 Hz; 0.002 in DA from 70 to 99 Hz; 1.0g from 99 to 300 Hz at 0.5 oct/min
Ambient temperature	• Operating: 55°F to 95°F (13°C to 35°C); Nonoperating: -40°F to 149°F (-40°C to 65°C)
Relative humidity	• Operating: 10 to 80 percent (noncondensing); Nonoperating: 95 percent maximum (noncondensing)
Altitude	• 0 to 8000 feet (0–2438 meters)

*Refers to configuration of optional components

For more information, contact your Unisys representative or visit www.unisys.com

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