



# Unisys Enterprise Servers

## The Unisys ES7000 Model 7600R G3 Enterprise Server



The Unisys ES7000 Model 7600R G3 Enterprise Server delivers mission-critical performance in a standards-based environment. With the superior scalability of the ES7000 Model 7600R G3 server, you can be confident you have the power to succeed in tackling your most complex and demanding OLTP, database and virtualization environments.

### Product Highlights

- The latest Intel® Xeon® 10-core processors power an architecture that provides unsurpassed scalability—up to 80 cores and 160 threads in 8 sockets.
- The ability to scale from 2 to 4 to 8 sockets provides investment protection and a simple, cost-effective upgrade path to support business growth. The “glueless” design allows for scalability from 4 to 8 sockets without using a specialized chipset or node controller.
- A maximum of 4 TB of memory – 6 TB with fully populated external Memory Expansion Modules – and a maximum of 14 PCI-Express slots per system deliver a balanced architecture to support enterprise-class performance.
- Platform partitioning is available for 8-socket configurations using Memory Expansion Modules. One or two partitions can be configured in a single system, with no re-cabling required.

### Typical Deployment Scenarios

- **Database and OLTP** – the scalability and balanced architecture of the ES7000 Model 7600R G3 server make it the perfect deployment platform for transaction-intensive OLTP and complex database environments. The level of performance in processor, memory and I/O in this system delivers best-in-class price/performance with these workloads.
- **Consolidation and virtualization** – the ability to deploy up to 6 TB of memory per system erodes performance bottlenecks that other platforms face when consolidating workloads onto a single system.
- **Business intelligence** – you can build very large data warehouses in a cost-effective Microsoft environment using SQL Server databases.
- **Cloud computing** – the scalability and consolidation capabilities of the ES7000 Model 7600R G3 server are an excellent foundation for flexible, cost-effective cloud computing solutions in the data center.

## System Specifications

<b>CPU Scalability</b>	<ul style="list-style-type: none"> <li>• 2, 4 or 8 processors (Maximum of four processors per cell; one or two cells per system)</li> </ul>
<b>CPU Types</b>	<ul style="list-style-type: none"> <li>• 10-core Intel Xeon Processor E7-8870; 8-core Intel Xeon Processor E7-8830</li> </ul>
<b>Operating System Certifications*</b>	<ul style="list-style-type: none"> <li>• Windows Server® 2012 with Hyper-V, Datacenter and Standard Editions</li> <li>• Microsoft Windows® Server 2008 R2 with Hyper-V, Datacenter, Enterprise and Standard Editions</li> <li>• Microsoft Windows® Server 2008 with Hyper-V, Datacenter, Enterprise and Standard Editions</li> <li>• Red Hat Enterprise Linux® 5 and 6 Advanced Server</li> <li>• SUSE Linux Enterprise Server 10 and 11</li> <li>• VMware ESX/ESXi 4.1 and ESXi 5.0</li> </ul>
<b>Partitions</b>	<ul style="list-style-type: none"> <li>• Up to two 4-socket partitions in a single system when using the scalability chipsets in the Memory Expansion Modules. All other system configurations have a single partition.</li> </ul>
<b>I/O</b>	<ul style="list-style-type: none"> <li>• Per cell: 7 internal full height, half-length PCI-Express slots; 8 2.5" serial-attached SCSI (SAS) or 16 1.8" SAS SSD or 4 2.5" SFF with 8 SSD</li> <li>• Per system: maximum of 14 PCI-Express slots; 16 2.5" SAS or 32 1.8" SAS SSD or 8 2.5" SFF with 16 SSD</li> </ul>
<b>Maximum Memory</b>	<ul style="list-style-type: none"> <li>• Per cell: 2 TB (32GB DIMMs); 3 TB with external Memory Expansion Module</li> <li>• Per system: 4 TB (32GB DIMMs); 6 TB with external Memory Expansion Modules</li> </ul>
<b>Cooling Method**</b>	<ul style="list-style-type: none"> <li>• Fans: 84 CFM idle, 100 CFM under load. Maximum is 241 CFM.</li> </ul>
<b>Dimensions (Standard 19" rack-mountable)</b>	<ul style="list-style-type: none"> <li>• Height: 172.8 mm (6.81 in); depth: 712.13 mm (28.04 in); width: 440 mm (17.32 in). Form factor: 4U per cell</li> </ul>
<b>Server Access</b>	<ul style="list-style-type: none"> <li>• Top</li> </ul>
<b>Estimated Weight (maximum**)</b>	<ul style="list-style-type: none"> <li>• Approximately 49.90 kg (110 lb) per cell when fully configured</li> </ul>
<b>Power**</b>	<ul style="list-style-type: none"> <li>• 1975 W at 220 VAC input per cell; 875 W at 110 VAC input per cell</li> <li>• Input voltage low range: minimum 100 VAC; maximum 127 VAC</li> <li>• Input voltage high range: minimum 200 VAC; maximum 240 VAC</li> <li>• Approximate input kilovolt-amperes (kVA): minimum 0.20 kVA; typical: 1.17 kVA; maximum 1.95 kVA (110 VAC) and 2.17 kVA (220 VAC)</li> </ul>
<b>Thermal**</b>	<ul style="list-style-type: none"> <li>• Approximate heat output per cell: minimum configuration 648 BTU per hour (190 W); typical configuration 3753 BTU per hour (1100 W); maximum configuration 5971 BTU per hour (1930 W) at 110 VAC and 6739 BTU per hour (2150 W) at 220 VAC</li> </ul>
<b>Shock</b>	<ul style="list-style-type: none"> <li>• Operating: all 3 axes: 10g x 5ms, half sine shock pulse</li> <li>• Nonoperating: 35g 136 in/sec delta V, trapezoidal shock pulse (6 faces)</li> </ul>
<b>Vibration</b>	<ul style="list-style-type: none"> <li>• Operating: 0.27 Grms random vibration (5500 Hz range)</li> <li>• Nonoperating: 1.04 Grms random vibration (2200 Hz range) 15 minutes per side</li> </ul>
<b>Ambient Temperature</b>	<ul style="list-style-type: none"> <li>• Operating: 10°C to 35°C (50°F to 95°F) with altitude of 0 to 914 m (3000 ft); 10°C to 32°C (50°F to 90°F) with altitude of 914 to 2133 m (7000 ft)</li> <li>• Nonoperating: 10°C to 43°C (50°F to 109.4°F) with maximum altitude of 2133 m (7000 ft)</li> </ul>
<b>Relative Humidity</b>	<ul style="list-style-type: none"> <li>• Operating: 8 to 80 percent (noncondensing); Nonoperating: 8 to 80 percent (noncondensing)</li> </ul>

\* Only 64-bit operating system environments are supported to run natively on the ES7000 Model 7600R G3 server; 32-bit operating systems are supported to run only as guests in supported virtual environments.

\*\* Refers to configuration of optional components

For more information, contact your Unisys representative or visit [www.unisys.com](http://www.unisys.com)

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