

Overview

NOTE: HP no longer sells Microsoft Windows Server 2008/2008 R2 on Integrity servers. HP will continue to support Microsoft Windows Server 2008/2008 R2 until Microsoft's end of mainstream support date (July 9th, 2013). For more details, please contact your HP representative.

The HP Integrity servers based on Intel® Itanium® architecture provide one of the most reliable and scalable platforms currently available for mission-critical Windows Server® deployments. Windows Server® 2008 R2 with Service Pack 1 builds upon this inherent scalability and processing power to provide an ideal platform for enterprise-scale workloads.

Windows Server 2008 R2 for Integrity Systems offers a foundation optimized for the most compute-intensive and critical business analytics and enterprise applications. Windows Server 2008 R2 provides a fault-resistant platform suitable for high-end RISC/UNIX system replacement, floating-point intensive applications, and applications that share data extensively among processes. Windows Server® 2008 R2 with Service Pack 1 further enhances the virtualization capability, remote desktop services, power management and Windows 7 integration.

The hot-pluggable component support and simplified clustering in Windows Server 2008 R2, when added to the reliability, availability, and scalability (RAS) features of the Integrity systems, enable customers to confidently move proprietary RISC/UNIX and mainframe implementations to a standards-based architecture with improved agility and total cost of ownership (TCO).

Windows Server 2008 R2 for Itanium-Based Systems offers the following high-end features and capabilities:

- Support for 2 terabytes of RAM
- Scalable to up to 64 IA64 sockets
- Hot Add/Replace Memory and Hot Add/Replace Processor support
- Eight-node failover cluster support
- Fault-tolerant memory synchronization
- Licensing rights to run an unlimited number of virtual instances of Windows Server 2008 R2

Integrity servers are rigorously tested and certified for Windows Server 2008. For a complete list of supported Integrity servers, visit the OS support matrix at: www.hp.com/go/windowscertification

- Available OEM licenses: Windows Server 2008 per processor license, Windows Server 2008 per server license for up to 4 processors and Windows Server 2008 per processor license for up to 8 processors.
- All Windows Server 2008 kits include:
 - **Smart Setup CD** - contains essential software every customer needs to install, configure, and manage Integrity servers with Windows.
 - **Smart Update DVD** - The Smart Update DVD contains security fixes and critical updates to the operating system from Microsoft.
 - **Reinstall Image DVD** - When you purchase an Integrity server with a Windows Server operating system from HP, a license for the latest version of the operating system is included along with downgrade rights to previous versions of the operating system. Depending on the option ordered, either Windows Server 2008 R2 or Windows Server 2008 SP2 is installed on the system. Reinstall image DVDs for currently shipping operating systems are also included in the media kits in order to upgrade or downgrade the operating system as needed.
 - **Documentation** - All necessary documents related to the Operating System are available on HP Smart Setup CD.
 - **CALs or Client Access Licenses** - The Windows Server per processor license contains 1 CAL.
 - **Certificate of Authenticity (COA)** - The CoA label will be attached to the physical server.
- From HP : Available for purchase at the time of your Integrity server purchase as pre-installed on all Integrity servers or Non-preinstalled (drop in the box) with the operating system DVDs included with the server. The customer can choose to pre-install either Windows Server 2008 R2 or Windows Server 2008. As an HP advantage, the system ships with Windows Server 2008 R2 CoA which ensures that the customer does not need to pay any upgrade costs if he chooses to move from WS 2008 to WS 2008 R2 later. Client access licenses (CALs) are also available for purchase in addition to your server purchase or for a later



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purchase. Please be sure to review the minimum and maximum system requirements for Windows Server 2008 at the Microsoft website listed at <http://www.microsoft.com/windowsserver2008/en/us/system-requirements.aspx>

- From your local authorized reseller: Available for purchase with your preferred Integrity server.

NOTE: For more information on HP's offering of Windows Server 2008 R2 products, go to:
<http://www.microsoft.com/windowsserver2008/en/us/2008-IA.aspx>



System Configuration

Windows Server 2008 R2 may be licensed for up to 256 logical processors. A physical processor can contain one or multiple cores, and each core can be multithreaded. Configurations can include:

- HP Super-Scalable Processor Chipsets (sx2000)
- Intel Itanium processors



System Requirements

The following table lists the recommended system requirements for installing Windows Server 2008 R2 on an Integrity system:

Component	Requirement
Processor	An Intel Itanium processor
Memory	Minimum : 512 MB Recommended: 2GB RAM or greater Maximum : 2 TB
Disk Space Requirements	64 GB or greater
Display	Super VGA (800 × 600) or higher resolution monitor
Other	DVD Drive, Keyboard and Mouse (or compatible pointing device)



Features

HP Integrity servers running Microsoft Windows Server 2008 R2 deliver high performance, great flexibility, and simplified management with exceptional value, and include the following models and feature sets.

Model	Features
Superdome (sx2000 chipset)	<ul style="list-style-type: none"> • 1-64 Intel Dual-Core Itanium processors in two cabinets • 2 TB memory capacity • Up to 8 hardware partitions (nPartitions) per cabinet • 96 Hot-plug PCI-X slots or mixed PCI-X and PCI-Express slots (Up to 192 slots with I/O Expansion Cabinets) • Hyper-threading support • vMedia • vKVM support
rx8640	<ul style="list-style-type: none"> • 1-16 Intel Dual-Core Itanium processors (including 91xx series) • 512 GB memory capacity • Up to 4 hardware partitions (nPartitions) with a Server Expansion Unit • 16 hot-plug PCI-X slots or mixed PCI-X and PCI-Express slots (up to 32 with optional Server Expansion Unit) • One 1-Gb LAN port • Hyper-threading support on Dual Core Itanium processors • vMedia • vKVM support
rx7640	<ul style="list-style-type: none"> • 1-8 Intel Dual-Core Itanium processors (including 91xx series) • 256 GB memory capacity • Up to 2 hardware partitions (nPartitions) • 15 Hot-plug PCI-X slots or mixed PCI-X and PCI-Express slots One 1-Gb LAN port • Hyper-threading support on Dual Core Itanium processors • vMedia • vKVM support
rx6600	<ul style="list-style-type: none"> • 1-4 processors • 192 GB memory capacity • 8 PCI-X slots or 4 PCI-Express x8 slots and 4 PCI-X slots • Two 1-Gb LAN ports; 1 iLO management LAN port • Hyper-threading support • zx2 chipset • vMedia • vKVM support
rx3600	<ul style="list-style-type: none"> • 1-2 processors • 96 GB memory capacity • 8 PCI-X slots or 4 PCI-Express x8 slots and 4 PCI-X slots • Two 1-Gb LAN ports; 1 iLO 2 management LAN port • Hyper-threading support • zx2 chipset • vMedia • vKVM support
rx2660	<ul style="list-style-type: none"> • 1-2 processors • 32 GB memory capacity • 1 PCI-X slot • 2 PCI-Express slots • Two 1-Gb LAN ports; 1 iLO 2 management LAN port • Hyper-threading support



Features

	<ul style="list-style-type: none"> • zx2 chipset • vMedia • vKVM support
rx2800 i2	<ul style="list-style-type: none"> • 1-2 processors • 96 GB memory capacity • 2 full-length PCIe cards, 2 low profile PCIe slots • Quad port 10/100/1000Base-TX LAN • 8 SAS 3Gb/s SFF Hot-plug HDDs • Hyper-threading support • vKVM support
BL860c Server Blade	<ul style="list-style-type: none"> • 1-2 processors • 48 GB memory capacity • 3 Mezzanine slots (2 Type II PCIe x8, 1 Type I PCIe x4) • Four 1-Gb LAN ports; 1 iLO 2 management LAN port • Up to 2 SAS internal disks • zx2 chipset • vMedia • vKVM support
BL860c i2 Server Blade	<ul style="list-style-type: none"> • 1-2 Intel Itanium 93xx series processors with Intel Hyper-Threading technology • 192 GB memory capacity • 3 Mezzanine slots (2 Type II PCIe x8 Gen2, 1 Type I PCIe x8 Gen2) • Four 10-Gb LAN ports; 1 iLO 3 management LAN port • Up to 2 small form factor (SFF) SAS internal disks • Intel Boxboro chipset • vMedia • vKVM support
BL870c Server Blade	<ul style="list-style-type: none"> • 1-4 processors • 96 GB memory capacity • 3 Mezzanine slots (2 Type II PCIe x8, 1 Type I PCIe x4) • Four 1-Gb LAN ports; 1 iLO 2 management LAN port • Up to 4 SAS internal disks • zx2 chipset • vMedia • vKVM support
BL870c i2 Server Blade	<ul style="list-style-type: none"> • 2-4 Intel Itanium 93xx series processors with Intel Hyper-Threading technology • 384GB memory capacity • 6 Mezzanine slots (4 Type II PCIe x8 Gen2, 2 Type I PCIe x8 Gen2) • Eight 10-Gb LAN ports; 1 iLO 3 management LAN port • Up to 4 small form factor (SFF) SAS internal disks • Intel Boxboro chipset • vMedia • vKVM support
BL890c i2 Server Blade	<ul style="list-style-type: none"> • 4-8 Intel Itanium 93xx series processors with Intel Hyper-Threading technology • 768 GB memory capacity • 12 Mezzanine slots (8 Type II PCIe x8 Gen2, 4 Type I PCIe x8 Gen2) • Sixteen 10-Gb LAN ports; 1 iLO 3 management LAN port • Up to 8 small form factor (SFF) SAS internal disks • Intel Boxboro chipset • vMedia • vKVM support



Features

NOTE: The Intel Dual Core Itanium processor (Intel Itanium 90xx and 91xx family) is supported by the sx2000 chipset used in the rx8640, rx7640, and Superdome SX2000 and by the zx2 chipset used in the rx6600, rx3600, rx2660, BL860c, and BL870c. The Intel Itanium 93xx processor is supported by the Boxboro chipset used in the rx2800 i2, BL860c i2, BL870c i2, and BL89c i2.



Supported Components

The following tables list the components that are supported on each server:

Superdome (with sx2000 chipset)

Table 1-1 Components supported with Superdome SX2000

LAN Adapter	HP PCI-X Dual Port Gigabit Ethernet SX adapter (A9899A) HP PCI-X Dual Port Gigabit Ethernet TX adapter (A9900A) HP PCI-X 10 Gigabit Ethernet adapter (AD385A) HP PCIe Gigabit Ethernet adapter SX 2P (AD338A) HP PCIe Gigabit Ethernet adapter TX 2P (AD337A)
SCSI Adapter	HP PCI-X Dual Channel Ultra320 SCSI Host Bus Adapter (A7173A)
Fibre Channel Adapter	HP StorageWorks 4 Gb single port 64-bit 266 MHz Fibre Channel HBA (AB429A) HP StorageWorks 4 Gb dual port 64-bit 266 MHz Fibre Channel HBA (AB379A) HP StorageWorks 4 Gb dual port 64-bit 266 MHz Fibre Channel HBA (AB379B) HP StorageWorks 4 Gb single port 64-bit 266 MHz Fibre Channel HBA (AD167A) HP StorageWorks 4 Gb dual port 64-bit 266 MHz Fibre Channel HBA (AD168A) HP StorageWorks FC2142 PCIe single port 4 Gb Fibre Channel adapter (A8002A) HP StorageWorks FC2242 PCIe dual port 4 Gb Fibre Channel adapter (A8003A) HP StorageWorks FC1142 PCIe single port 4 Gb Fibre Channel adapter (AE311A) HP StorageWorks AD300A PCIe dual port 4 Gb Fibre Channel adapter (AD300A) HP PCIe 8 Gb single port Fibre Channel adapter (QLogic) (AH400A) HP PCIe 8 Gb dual port Fibre Channel adapter (QLogic) (AH401A) HP PCIe 8 Gb single port Fibre Channel adapter (Emulex) (AH402A) HP PCIe 8 Gb dual port Fibre Channel adapter (Emulex) (AH403A)
RAID Controller	HP PCI-X Dual Channel Smart Array 6402, Ultra320 SCSI (A9890A) HP PCI-X 4-Channel Smart Array 6404, Ultra320 SCSI (A9891A) HP PCI-X Single Channel Smart Array P600, SAS 3.0 (337972-B21) HP PCIe Smart Array P800, SAS (AD335A) HP PCIe Smart Array E500, SAS (AH226A) HP PCIe Smart Array P411, SAS 256 MB Controller (AM311A) HP PCIe Smart Array P812, SAS 6 Gb Controller (487204-B21)
VGA Graphics	HP USB/VGA card (A6869B) (in the I/O chassis, attached to the root cell only) HP Lights Out Advanced KVM Card (AD307A)
Keyboard	Only HP keyboards are supported.
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

Supported Components

rx8640

Table 1-2 Components supported with rx8640

LAN Adapter	HP PCI-X Dual Port Gigabit Ethernet SX adapter (A9899A) HP PCI-X Dual Port Gigabit Ethernet TX adapter (A9900A) HP PCI-X 10 Gigabit Ethernet adapter (AD385A) HP PCIe Gigabit Ethernet adapter SX 2P (AD338A) HP PCIe Gigabit Ethernet adapter TX 2P (AD337A)
SCSI Adapter	HP PCI-X Dual Channel Ultra320 SCSI Host Bus adapter (A7173A) (supported as accessory card and as embedded core I/O)
Fibre Channel Adapter	HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AB429A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379B) HP StorageWorks 4 Gb Single Port Fibre Channel HBA (AD167A) HP StorageWorks 4 Gb Dual Port Fibre Channel HBA (AD168A) HP StorageWorks FC2142 PCIe Single Port 4 Gb Fibre Channel adapter (A8002A) HP StorageWorks FC2242 PCIe Dual Port 4 Gb Fibre Channel adapter (A8003A) HP StorageWorks FC1142 PCIe Single Port 4 Gb Fibre Channel adapter (AE311A) HP StorageWorks AD300A PCIe Dual Port 4 Gb Fibre Channel adapter (AD300A) HP PCIe 8 Gb single port Fibre Channel adapter (QLogic) (AH400A) HP PCIe 8 Gb dual port Fibre Channel adapter (QLogic) (AH401A) HP PCIe 8 Gb single port Fibre Channel adapter (Emulex) (AH402A) HP PCIe 8 Gb dual port Fibre Channel adapter (Emulex) (AH403A)
RAID Controller	HP PCI-X Dual Channel Smart Array 6402, Ultra320 SCSI (A9890A) ¹ HP PCI-X 4-Channel Smart Array 6404, Ultra320 SCSI (A9891A) ¹ HP PCI-X Single Channel Smart Array P600, SAS 3.0 (337972-B21) HP PCIe Smart Array P800, SAS (AD335A) HP PCIe Smart Array E500, SAS (AH226A) HP PCIe Smart Array P411, SAS 256 MB Controller (AM311A) HP PCIe Smart Array P812, SAS 6 Gb Controller (487204-B21)
VGA Graphics	HP USB/VGA card (A6869B) (in the I/O chassis, attached to the root cell only) HP Lights Out Advanced KVM Card (AD307A)
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

¹ Supports multiple SA64xx cards connected to internal drives for either boot or for data. For example, one slot may hold a SA64xx card connected to two internal drives for boot, and another slot may hold a SA64xx card connected to two internal drives for data. Or, each card may be connected to two internal drives for data.

Supported Components

rx7640

Table 1-3 Components supported with rx7640

LAN Adapter	HP PCI-X Dual Port Gigabit Ethernet SX adapter (A9899A) HP PCI-X Dual Port Gigabit Ethernet TX adapter (A9900A) HP PCI-X 10 Gigabit Ethernet adapter (AD385A) HP PCIe Gigabit Ethernet adapter SX 2P (AD338A) HP PCIe Gigabit Ethernet adapter TX 2P (AD337A)
SCSI Adapter ²	HP PCI-X Dual Channel Ultra320 SCSI Host Bus adapter (A7173A) (supported as accessory card and as embedded core I/O)
SCSI/LAN Combination Adapter	HP PCI-X (Castor AB290A) U320 SCSI/GigE Combination card
Fibre Channel Adapter	HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AB429A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379B) HP StorageWorks 4 Gb Dual Port Fibre Channel HBA (AD168A) HP StorageWorks 4 Gb Single Port Fibre Channel HBA (AD167A) HP StorageWorks FC2142 PCIe Single Port 4 Gb Fibre Channel adapter (A8002A) HP StorageWorks FC2242 PCIe Dual Port 4 Gb Fibre Channel adapter (A8003A) HP StorageWorks FC1142 PCIe Single Port 4 Gb Fibre Channel adapter (AE311A) HP StorageWorks AD300A PCIe Dual Port 4 Gb Fibre Channel adapter (AD300A) HP PCIe 8 Gb single port Fibre Channel adapter (QLogic) (AH400A) HP PCIe 8 Gb dual port Fibre Channel adapter (QLogic) (AH401A) HP PCIe 8 Gb single port Fibre Channel adapter (Emulex) (AH402A) HP PCIe 8 Gb dual port Fibre Channel adapter (Emulex) (AH403A)
RAID Controller	HP PCI-X Dual Channel Smart Array 6402, Ultra320 SCSI (A9890A) ¹ HP PCI-X 4-Channel Smart Array 6404, Ultra320 SCSI (A9891A) ¹ HP PCI-X Single Channel Smart Array P600, SAS 3.0 (337972-B21) HP PCIe Smart Array P800, SAS (AD335A) HP PCIe Smart Array E500, SAS (AH226A) HP PCIe Smart Array P411, SAS 256 MB Controller (AM311A) HP PCIe Smart Array P812, SAS 6 Gb Controller (487204-B21)
VGA Graphics	HP USB/VGA card (A6869B) (in the I/O chassis, attached to the root cell only) HP Lights Out Advanced KVM Card (AD307A)
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

¹ Supports multiple SA64xx cards connected to internal drives for either boot or for data. For example, one slot may hold a SA64xx card connected to two internal drives for boot, and another slot may hold a SA64xx card connected to two internal drives for data. Or, each card may be connected to two internal drives for data.

Supported Components

rx6600

Table 1-4 Components supported with rx6600

LAN Adapter	HP PCI-X Dual Port Gigabit Ethernet SX adapter (A9899A) (Supported as an accessory card and as core I/O) HP PCI-X Dual Port Gigabit Ethernet TX adapter (A9900A) HP PCI-X 10 Gigabit Ethernet adapter (AD385A) HP PCIe Gigabit Ethernet adapter SX 2P (AD338A) HP PCIe Gigabit Ethernet adapter TX 2P (AD337A)
SCSI Adapter	PCI-X Dual Channel Ultra320 SCSI Host Bus Adapter (A7173A)
Fibre Channel Adapter	HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AB429A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379B) HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AD167A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AD168A) HP StorageWorks FC2142 PCIe Single Port 4 Gb Fibre Channel adapter (A8002A) HP StorageWorks FC2242 PCIe Dual Port 4 Gb Fibre Channel adapter (A8003A) HP StorageWorks FC1142 PCIe Single Port 4 Gb Fibre Channel adapter (AE311A) HP StorageWorks AD300A PCIe Dual Port 4 Gb Fibre Channel adapter (AD300A) HP PCIe 8 Gb single port Fibre Channel adapter (QLogic) (AH400A) HP PCIe 8 Gb dual port Fibre Channel adapter (QLogic) (AH401A) HP PCIe 8 Gb single port Fibre Channel adapter (Emulex) (AH402A) HP PCIe 8 Gb dual port Fibre Channel adapter (Emulex) (AH403A)
RAID Controller	HP PCI-X Single Channel Smart Array P600, SAS 3.0 (337972-B21) HP PCIe Smart Array P800 (AD335A) HP PCI-Express Smart Array P400 (401532-B21) HP PCI-Express Smart Array E500 (AH226A) HP PCIe Smart Array P411, SAS 256 MB Controller (AM311A) HP PCIe Smart Array P812, SAS 6 Gb Controller (487204-B21)
Management Processor	Integrity Integrated Lights-Out (iLO 2) Integrity iLO Advanced Pack
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

rx3600

Table 1-5 Components supported with rx3600



Supported Components

LAN Adapter ¹	HP PCI-X Dual Port Gigabit Ethernet SX adapter (A9899A) HP PCI-X Dual Port Gigabit Ethernet TX adapter (A9900A) HP PCI-X 10 Gigabit Ethernet adapter (AD385A) HP PCIe Gigabit Ethernet adapter SX 2P (AD338A) HP PCIe Gigabit Ethernet adapter TX 2P (AD337A)
SCSI Adapter	HP PCI-X Dual Channel Ultra320 SCSI Host Bus Adapter (A7173A)
Fibre Channel Adapter	HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AB429A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379B) HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AD167A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AD168A) HP StorageWorks FC2142 PCIe Single Port 4 Gb Fibre Channel adapter (A8002A) HP StorageWorks FC2242 PCIe Dual Port 4 Gb Fibre Channel adapter (A8003A) HP StorageWorks FC1142 PCIe Single Port 4 Gb Fibre Channel adapter (AE311A) HP StorageWorks AD300A PCIe Dual Port 4 Gb Fibre Channel adapter (AD300A) HP PCIe 8 Gb single port Fibre Channel adapter (QLogic) (AH400A) HP PCIe 8 Gb dual port Fibre Channel adapter (QLogic) (AH401A) HP PCIe 8 Gb single port Fibre Channel adapter (Emulex) (AH402A) HP PCIe 8 Gb dual port Fibre Channel adapter (Emulex) (AH403A)
RAID Controller	HP PCI-X Single Channel Smart Array P600, SAS 3.0 (337972-B21) HP PCIe Smart Array P800 (AD335A) HP PCI-Express Smart Array P400 (401532-B21) HP PCI-Express Smart Array E500 (AH226A) HP PCIe Smart Array P411, SAS 256 MB Controller (AM311A) HP PCIe Smart Array P812, SAS 6 Gb Controller (487204-B21)
Management Processor	Integrity iLO 2 Integrity iLO Advanced Pack
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

rx2660

Table 1-6 Components supported with rx2660

LAN Adapter ¹	HP PCI-X Dual Port Gigabit Ethernet SX adapter (A9899A) HP PCI-X Dual Port Gigabit Ethernet TX adapter (A9900A) HP PCI-X 10 Gigabit Ethernet adapter (AD385A) HP PCIe Gigabit Ethernet adapter SX 2P (AD338A) HP PCIe Gigabit Ethernet adapter TX 2P (AD337A)
SCSI Adapter	HP PCI-X Dual Channel Ultra320 SCSI Host Bus Adapter (A7173A)
Fibre Channel Adapter	HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AB379B) HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AB429A) HP StorageWorks 4 Gb Single Port 64-bit 266 MHz Fibre Channel HBA (AD167A) HP StorageWorks 4 Gb Dual Port 64-bit 266 MHz Fibre Channel HBA (AD168A) HP StorageWorks FC2142 PCIe Single Port 4 Gb Fibre Channel adapter (A8002A) HP StorageWorks FC2242 PCIe Dual Port 4 Gb Fibre Channel adapter (A8003A) HP StorageWorks FC1142 PCIe Single Port 4 Gb Fibre Channel adapter (AE311A) HP StorageWorks AD300A PCIe Dual Port 4 Gb Fibre Channel adapter (AD300A) HP PCIe 8 Gb single port Fibre Channel adapter (QLogic) (AH400A) HP PCIe 8 Gb dual port Fibre Channel adapter (QLogic) (AH401A) HP PCIe 8 Gb single port Fibre Channel adapter (Emulex) (AH402A) HP PCIe 8 Gb dual port Fibre Channel adapter (Emulex) (AH403A)



Supported Components

RAID Controller	HP PCI-X Single Channel Smart Array P600, SAS 3.0 (337972-B21) HP PCIe Smart Array P800 (AD335A) HP PCI-Express Smart Array P400 (405160-B21) HP PCI-Express Smart Array E500 (AH226A) HP PCIe Smart Array P411, SAS 256 MB Controller (AM311A) HP PCIe Smart Array P812, SAS 6 Gb Controller (487204-B21)
Management Processor	Integrity iLO 2 Integrity iLO Advanced Pack
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

rx2800 i2

Table 1-7 Components supported with rx2800 i2

LAN Adapter ¹	HP Integrity 10GbE-SR 2p PCIe Adapter (AM225A) HP Integrity 10GbE-LR 2p PCIe Adapter (AM232A) HP Integrity 10GbE-Cu 2p PCIe Adapter (AM233A) HP PCIe 2-port 1000Base-T card (AD337A) HP PCIe 2-port 1000Base-SX card (AD338A) HP PCIe 4-port 1000Base-T Gigabit Adapter (AD339A)
SCSI Adapter	HP 1-port 8Gb PCIe FC SR QLogic HBA (AH400A) HP 2-port 8Gb PCIe FC SR QLogic HBA (AH401A) HP Integrity PCIe 2p P411/256MB SAS Controller (AM311A) HP Smart Array P812/1G FBWC 2-ports Int/4-ports Ext PCIe x8 SAS Controller (487204-B21)
Fibre Channel Adapter	HP PCIe 1-port 4Gb Fibre Channel and 1-port 1000BaseT Adapter (AD221A) HP PCIe 2-port 4Gb Fibre Channel and 2-port 1000BaseT Adapter (AD222A) HP PCIe 2-port 4Gb Fibre Channel and 2-port 1000BaseSX Adapter (AD393A)
RAID Controller	HP PCIe SAS SA P411 256MB Controller (AM311A) HP PCIe Smart Array P812, SAS 6 Gb Controller (487204-B21)
Management Processor	Integrity iLO 3 Integrity iLO Advanced Pack
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

BL860c and BL870c Server Blade

Table 1-8 Components supported with BL860c and BL870c

I/O Mezzanine Support	Dual Port 4 Gb/s FC Mezzanine Card (Q-Logic) (403619-B21) 8 Gigabit Mezzanine FC HBA (Emulex) (456972-B21) 8 Gigabit Mezzanine FC HBA (QLogic) (451871-B21) Emulex LPe1105-HP 4 Gb FC HBA (403621-B21) Direct Adaptor Mezzanine Card for connecting to the Direct Attached Storage Blade (431643-B21) ¹ PCI Express Quad Port Gigabit Mezzanine NIC (NC364M) (447883-B21) PCI Express Dual Port Gigabit Mezzanine NIC (NC360m) (445978-B21) P700m Smart Array Mezzanine Card (451017-B21) HP NC532m Dual port 10 Gigabit Ethernet Mezzanine NIC (467799-B21)
Management Processor	Integrity iLO 2 Integrity iLO Advanced Pack
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)



Supported Components

BL860c i2, BL870c i2 and BL890c i2 Server Blade

Table 1-9 Components supported with BL860c i2, BL870c i2, and BL890c i2

I/O Mezzanine Support	Emulex LPe1205-HP Dual port 8 Gb FC HBA (456972-B21) ² HP QMH 2562 Dual port 8 Gb FC BL-c HBA (QLogic) (451871-B21) ³ PCI Express Quad Port Gigabit Mezzanine NIC (NC364M) (447883-B21) HP NC532m Dual port 10 Gigabit Ethernet Mezzanine NIC (467799-B21) PCI Express Dual Port Gigabit Mezzanine NIC (NC360m) (445978-B21) P700m Smart Array Mezzanine Card (451017-B21)
Management Processor	Integrity iLO 3 Integrity iLO Advanced Pack
Graphic Console	TFT7600 Rack Mount Keyboard Monitor (all versions)

¹ Supported on the BL860c only.
^{2, 3} For boot, you must place the card in the left-most, or 1st blade, in the rack.



Ordering Information

Windows Server 2008 R2 per processor license

Windows Svr 08 Itanium R2 per Processor

T8704A-xxx

This license can be ordered with any Integrity server. One option from each of the following blocks needs to be selected to place an order:

Option to select Windows Server Version

xxx = 050	Windows Server 2008 SP2	T8704A-050
xxx = 051	Windows Server 2008 R2	T8704A-051

As an HP value-add, HP ships Windows Server 2008 R2 CoA with all Windows Server orders. This ensures that customers do not need to pay any upgradation costs while migrating from Windows Server 2008 SP2 to Windows Server 2008 R2 at a later date. Use this option to indicate your choice for pre-installation of SP2 or R2.

Option to select Number of Processors

xxx = 001	1 processor LTU	T8704A-001
xxx = 004	4 processor LTU	T8704A-004
xxx = 008	8 processor LTU	T8704A-008
xxx = 016	16 processor LTU	T8704A-016

Option to select Language

xxx = ABA	English	T8704A-ABA
xxx = ABJ	Japanese	T8704A-ABJ

Option to select Delivery Mode

xxx = 0D1	Factory Integration	T8704A-0D1
xxx = B01	Include with complete system	T8704A-B01
xxx = 501	HP Field Standalone Operating System	T8704A-501

Windows Server 2008 R2 per server license

Windows Svr 08 Itanium R2 per Processor

T8722A-xxx

This license can be ordered with bl860c, bl870c, bl860c i2, bl870c i2, bl890c i2, rx2800 i2, rx2660, rx3600, rx6600 and rx7640. Note that option 00 One option from each of the following blocks needs to be selected to place an order:

Option to select Windows Server Version

xxx = 050	Windows Server 2008 SP2	T8722A-050
xxx = 051	Windows Server 2008 R2	T8722A-051

As an HP value-add, HP ships Windows Server 2008 R2 CoA with all Windows Server orders. This ensures that customers do not need to pay any upgradation costs while migrating from Windows Server 2008 SP2 to Windows Server 2008 R2 at a later date. Use this option to indicate your choice for pre-installation of SP2 or R2.

Option to select Number of Processors

xxx = 001	License for up to 4 processor systems	T8722A-001
xxx = 002	License for up to 8 processor systems	T8722A-004

Option to select Language

xxx = ABA	English	T8722A-ABA
xxx = ABJ	Japanese	T8722A-ABJ



Ordering Information

Option to select Delivery Mode		
xxx = 0D1	Factory Integration	T8722A-0D1
xxx = B01	Include with complete system	T8722A-B01
xxx = 501	HP Field Standalone Operating System	T8722A-501



Useful Websites

The following websites provide other useful information about Windows on Integrity servers:

<http://h20341.www2.hp.com/integrity/w1/en/os/windows-on-integrity-overview.html>

<http://www.microsoft.com/windowsserver2008/en/us/default.aspx>

<http://h20341.www2.hp.com/integrity/w1/en/os/windows-on-integrity-releases.html>

<http://docs.hp.com/en/hw.html>

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