



hp's first 4-way capable Itanium server—hp server rx4610

The rack-optimized HP Server rx4610 is HP's first 4-way capable server built around the 64-bit Itanium architecture co-invented by Hewlett-Packard and Intel®. Containing two to four Itanium processors, complemented with HP's powerful combination of memory, I/O bandwidth and disk storage, the HP Server rx4610 is an ideal way to next-generation, industry-standard Itanium computing.

hp server rx4610	feature	benefit	advantage
	breakthrough technology	<p>two to four 64-bit Itanium CPUs</p> <p>more than just 64-bit processing, Itanium promises higher performance and lower chip production costs</p> <p>excellent floating-point performance, massive parallelism, very large cache/memory support and multiprocessor scalability</p>	<p>performance processors deliver next-generation computing</p> <p>strengthens capabilities for technical and Internet-based applications</p> <p>assures significant performance gains</p>
	partner for today	<p>co-invented the Itanium technology and uses expertise to exploit the architecture</p> <p>out of the box compatibility with HP's existing IA-32 and PA-RISC systems</p> <p>supports industry's leading operating systems: HP-UX, Windows 64-bit, and 64-bit Linux</p> <p>offers a family of Itanium-based servers</p>	<p>promises smooth transition</p> <p>applications can be moved to Itanium platforms without being recompiled</p> <p>outstanding flexibility—provides a single, industry standard platform able to run applications on one of three operating systems</p> <p>broadest Itanium product line in the industry</p>
	leader of the future	<p>unique insight into Itanium architecture</p> <p>aggressive investment protection program for customers to move to the next generation of Itanium Processor Family (IPF) servers</p>	<p>offers first-hand expertise to customer partners</p> <p>provides customers with the most comprehensive IPF transition and upgrade strategy in the industry</p>

hp server rx4610

features at-a-glance

- 2 to 4 Itanium CPUs—
733MHz or 800MHz with 2MB or 4MB L3 cache
- up to 64GB ECC SDRAM memory
- 72GB internal disk (two 36GB drives)
- 10 PCI slots—
eight 66MHz(4x) 3.3V hot pluggable
and two 33MHz(2x) 5V non hot pluggable
- hot swappable fans and power supply
- 7U rack-mounted chassis
- 48V distributed power, 208VAC (2x20A)
- Windows 64-bit
- 64-bit Linux
- HP-UX 11i v. 1.5

environmental specifications

height	31.12 cm (12.25 inches, 7U)
width	44.45 cm (17.5 inches)
depth	71.12 cm (28.0 inches)
weight (max.)	68.1 kg (150 lbs.)
required front clearance	3 inches
required rear clearance	8 inches
heat dissipation	6174 BTU/hr

product specifications

processors

Intel Itanium 733MHz, 266MHz effective FSB, integrated 2MB L3 cache
Intel Itanium 800MHz, 266MHz effective FSB, integrated 4MB L3 cache

processor upgrades

standard 2 CPUs, upgradeable to a maximum of 4 CPUs

memory

minimum of 1GB RAM
maximum of 64GB RAM

mass storage shelves

- 4 shelves total
- one 3.5 inch LS-120 floppy
- one DVD-ROM
- two 36GB HDDs are included on the two low-profile drive bays

maximum internal storage

standard with 72GB (*maximum capacity is 72GB*)

hot swappable drives

36.4GB 7200 rpm Ultra-3 SCSI

expansion slots

10 full-length PCI slots—
eight 64-bit/66MHz hot pluggable and
two 64-bit/33MHz non hot pluggable

controller

embedded dual-channel Ultra-160 SCSI controller

NIC

integrated Intel 82559 10/100TX NIC

power supply

four power supplies (*two power supplies per feed*)
– hot swappable 3+1 redundant power supply
– withstands one power supply failure, but not one
power feed failure

video

embedded ATI Rage 128VR 64-bit SVGA video controller
16MB onboard video memory (*video controller supports pixel
resolutions of up to 1600X 1200 and up to 16.7 million colors*)

removable media

one 120MB 3.5 inch LS-120 floppy
one DVD-ROM

built-in I/O ports

two serial ports (*one convertible to server management port*)
one parallel port
one SCSI port for external connection
one 10/100 LAN connector
two USB Ports
video port—SVGA
PS/2 keyboard and mouse
two ICMB ports

supported operating systems (*runs one at a time*)

HP-UX 11i version 1.5
Windows 64-bit
64-bit Linux

security

startup password
floppy, CD ROM, and hard disk boot disable
enable or disable serial port, floppy drives, and write
operations to floppy drive

designed-in support

extensive built-in self-tests

For the latest information about hp servers:

www.hp.com/go/servers

www.hp.com/go/itanium

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HP's first 4-way capable
Itanium servers, shown as
five (5) racked servers