



HPE Integrity i6 servers

Mission-Critical Computing Continuity



When you need continuous business

We all live and work in a new era of extreme business speed with heightened customer, partner, and employee expectations. To better compete and grow, businesses demand more innovation, speed, flexibility, and availability from their data centers. This puts the pressure squarely on IT to deliver new applications and services quickly, while also paving the way for future innovation.

Business environments keep changing because of technological improvements, shifts in customer expectations, and new market trends such as cloud, Big Data, and user mobility. What never changes is the need for resilient, reliable business technology platforms that enable enterprises to quickly adapt and, at the same time, keep their core-business processes and customer-facing interactions running without missing a beat.

The real-world impact of hardware or software failure can be significant. From financial transactions to supply-chain operations to 911 calls—if the job doesn't get done it can mean lost revenue, lost customers, or even lost lives. And if it makes the news, it can mean disastrous publicity and lost reputation.

That is the essence of the value HPE Integrity servers deliver to customers—an unparalleled portfolio of resilient systems that ensure continuous business for mission-critical environments.

Finally, the HPE Integrity portfolio is designed for longevity—decoupling resources (people) and applications (software) from the inevitable business changes.

With more than three decades of delivering proven value, the HP-UX and Integrity platform continues to evolve to help you address current market trends such as the cloud, mobility, and security, as well as the increasingly challenging requirements of your mission-critical environment. As a highly integrated UNIX® system, HP-UX delivers built-in resiliency and self-healing features, stability, and predictable performance, so you can count on the uptime your critical applications demand—and that includes data-driven core enterprise workloads like enterprise resource planning, billing, and databases. The three pillars of value that these systems always deliver are:

- Always-on availability
- Built-in efficiency
- Proven stability

Deliver mission-critical results with HPE Integrity and HP-UX

Our lineup of HPE Integrity servers blends HPE BladeSystem efficiency with HPE Integrity resiliency. To increase longevity and protect your investment, we have designed these servers to support the latest generation of Intel® Itanium® processors.

HPE Integrity Superdome 2 is the ultimate mission-critical platform, scaling up, out, and within, to allow you to consolidate applications on a common platform. Engineered with trusted HPE Integrity Superdome reliability, Superdome 2 has a modular bladed design, common components, and standard racks. Some of the unique innovations from HPE are designed to boost infrastructure reliability with self-diagnosing, self-healing features built right into the heart of the system.

The HPE Integrity BL860c i6 Server Blade, HPE Integrity BL870c i6 Server Blade, and HPE Integrity BL890c i6 Server Blade are flexible and versatile two-, four-, and eight-socket systems that are ideal for your mission-critical enterprise applications. With support for hard partitioning (HPE nPars), HP-UX Virtual Partitions (HP-UX vPars), and HPE Integrity Virtual Machines (HPE VMs), these HPE Integrity server blades give you mission-critical levels of virtualization, availability, and flexibility. Additionally, embedded HPE Virtual Connect FlexFabric offers increased network scalability and configuration flexibility while reducing infrastructure costs by converging LAN and SAN traffic on the same connection. With wire-once connectivity, IT administrators can manage all subsequent “rewiring” virtually, significantly reducing cabling. These HPE Integrity server blades feature the unique HPE Blade Link technology, which combines multiple blades to create two-, four-, and eight-socket systems—providing greater scalability and flexibility.

HPE Integrity rx2800 i6 Server, a reliable and secure 2U two-socket rack server, is a great fit for branch offices and data centers supporting a range of mission-critical workloads. Customers achieve platform longevity and investment protection with advanced processors that deliver backward compatibility, while further enhancing performance with support of the HPE XP7 Storage and HPE 3PAR All Flash Arrays.

Customers can also leverage the recent HP-UX innovations that include the Veritas 6.1 File system support, online HP-UX vPAR migration, Smart Quorum with HPE Serviceguard and HPE OpenStack® support.

To know more about HP-UX:
hpe.com/info/hpux

HPE Integrity i6 server blades

Flexible mission-critical server blades combined with the efficiency of HPE BladeSystem to accelerate IT effectiveness



Integrity server blades	HPE Integrity BL860c i6 Server Blade Cost-effective mission-critical converged infrastructure—a versatile and expandable two-socket blade that is ideal for application-tier and transaction workloads, database, Java, and technical computing applications	HPE Integrity BL870c i6 Server Blade Flexible mission-critical server blades, combined with the efficiency of HPE BladeSystem—a four-socket server blade that is ideal for the database tier of multi-tiered enterprise applications such as SAP® and Oracle enterprise applications	HPE Integrity BL890c i6 Server Blade Scale up to meet the high demands of mission-critical computing with an 8-socket server blade—ideal for larger mission-critical workloads such as enterprise resource planning, customer relationship management, business intelligence, and large shared-memory applications
Processors supported	Intel Itanium processor 9700 series 2.66 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache 2.53 GHz (4-core) with 32 MB shared last-level cache 1.73 GHz (4-core) with 20 MB shared last-level cache	Intel Itanium processor 9700 series 2.66 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache 2.53 GHz (4-core) with 32 MB shared last-level cache 1.73 GHz (4-core) with 20 MB shared last-level cache	Intel Itanium processor 9700 series 2.66 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache 2.53 GHz (4-core) with 32 MB shared last-level cache 1.73 GHz (4-core) with 20 MB shared last-level cache
Number of processors	1–2	2–4	4–8
Maximum number of cores	16	32	64
Operating systems supported Choice of Data Center, High Availability, Virtual Server, or Base OEs	HP-UX 11i v3	HP-UX 11i v3	HP-UX 11i v3
Maximum memory (cluster)	384 GB (24 x 16 GB)	768 GB (48 x 16 GB)	1.5 TB (96 x 16 GB)
I/O slots	3 mezzanine slots: 2 Type II and 1 Type I, PCI Express (PCIe) x8 Gen2	6 mezzanine slots: 4 Type II and 2 Type I, PCIe x8 Gen2	12 mezzanine slots: 8 Type II and 4 Type I, PCIe x8 Gen2
Internal hard disk drives	Up to 2	Up to 4	Up to 8
Management and virtualization	HPE Systems Insight Manager (SIM) HPE Integrity Integrated Lights-Out 3 (iLO 3) HP-UX Virtual Partitions (vPars) OpenStack for HP-UX	HPE SIM HPE iLO 3 HP-UX vPars 1 or 2 HPE nPartitions (nPars) OpenStack for HP-UX	HPE SIM HPE iLO 3 HP-UX vPars 1–4 HPE nPars OpenStack for HP-UX
Form factor	8 blades in 10U; 4 blades in 6U	4 blades in 10U; 2 blades in 6U	2 blades in 10U; 1 blade in 6U

HPE Integrity i6 server blades (continued)

Flexible mission-critical server blades combined with the efficiency of HPE BladeSystem to accelerate IT effectiveness

Software	HPE Matrix OE for HP-UX HPE Serviceguard Solutions	HPE Matrix OE for HP-UX HPE Serviceguard Solutions	HPE Matrix OE for HP-UX HPE Serviceguard Solutions
Recommended services	Support HPE Critical Service HPE Proactive 24 Service HPE Support Plus 24 Service	HPE Critical Service HPE Proactive 24 Service HPE Support Plus 24 Service	HPE Critical Service HPE Proactive 24 Service HPE Support Plus 24 Service
	Installation HPE Installation and Startup	HPE Installation and Startup	HPE Installation and Startup
	Other services HPE Startup Integrity Blade Infrastructure Service HPE Enhanced Network I&S for BladeSystem Switches HPE Startup VSE Global Workload Manager (gWLM) w/VM Service HPE Cluster Consistency 2-3 Node Cluster Service HPE Serviceguard Implementation—HP-UX	HPE Startup Integrity Blade Infrastructure Service HPE Enhanced Network I&S for BladeSystem Switches HPE Startup VSE Global Workload Manager (gWLM) w/VM Service HPE Cluster Consistency 2-3 Node Cluster Service HPE Serviceguard Implementation—HP-UX	HPE Startup Integrity Blade Infrastructure Service HPE Enhanced Network I&S for BladeSystem Switches HPE Startup VSE Global Workload Manager (gWLM) w/VM Service HPE Cluster Consistency 2-3 Node Cluster Service HPE Serviceguard Implementation—HP-UX
Hardware options	10 Gb/s converged network adapters 10 Gb/s network adapters 8 Gb/s Fibre Channel host bus adapters 6 Gb/s Serial-Attached SCSI (SAS) Smart Array Controllers SAS solid state drives and hard disk drives	10 Gb/s converged network adapters 10 Gb/s network adapters 8 Gb/s Fibre Channel host bus adapters 6 Gb/s Serial-Attached SCSI (SAS) Smart Array Controllers SAS solid state drives and hard disk drives	10 Gb/s converged network adapters 10 Gb/s network adapters 8 Gb/s Fibre Channel host bus adapters 6 Gb/s Serial-Attached SCSI (SAS) Smart Array Controllers SAS solid state drives and hard disk drives

HPE Integrity i6 rack servers

Re-energize your branch office and rack server infrastructure



Integrity i6 rack servers	HPE Integrity rx2800 i6 Server Ideal for branch offices and data centers with UNIX workloads such as business processing, OLTP, system management, application tier, security, and industrial R&D	
Processors supported	Intel Itanium processor 9700 series 2.66 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache 2.53 GHz (4-core) with 32 MB shared last-level cache 1.73 GHz (4-core) with 20 MB shared last-level cache	
Number of processors	1–2	
Maximum number of cores	16	
Operating systems supported Choice of Data Center, High Availability, Virtual Server, or Base OEs	HP-UX 11i v3	
Maximum memory cluster	384 GB (24 x 16 GB), DDR3 Low-Voltage (1.35V) Memory	
I/O slots	Maximum support of 6 I/O slots with 2 three-slot PCIe riser cards; two-slot PCIe riser cards are also supported	
Internal hard disk drives	Up to 8	
Management and virtualization	HPE Systems Insight Manager (SIM) HPE Integrity Integrated Lights-Out 3 (iLO 3) HP-UX Virtual Partitions (vPars) HPE Integrity Virtual Machines (VMs) OpenStack for HP-UX	
Rack height (EIA unit)	2U rack, tower with pedestal kit	
Recommended services	Support HPE Proactive 24 Service HPE Support Plus 24 Service	Installation HPE Installation and Startup
		Other services HPE Proactive Select menu HPE Startup Virtual Machine Service HPE Serviceguard Implementation—HP-UX HPE Serviceguard Installation and Startup Service HPE Startup Integrity 2-socket server service
Hardware options	Ethernet and Fibre Channel multifunction (combo) adapters 1 Gb/s and 10 Gb/s network adapters 8 Gb/s and 16 Gb/s Fibre Channel host bus adapters 6 Gb/s Serial-Attached SCSI (SAS) Smart Array Controllers Quad Data Rate (QDR) 4X InfiniBand host channel adapters HPE Integrity rx2800 2D Graphics Adapter SAS solid state drives and hard disk drives Keyboard and Mouse Kits Trusted platform module (TPM)	

HPE Integrity i6 Superdome 2

The flagship server in the HPE Mission-Critical Converged Infrastructure—ideal for high-end consolidation, availability, and resiliency



Integrity i6 Superdome 2	HPE Superdome 2-8s	HPE Superdome 2-16s	HPE Superdome 2-32s
	Entry point for HPE Superdome-class reliability and flexibility	Modular, flexible building block for HPE Superdome 2, with expanded scalability for enterprise applications	Expanded scalability, performance, and ease of management, including the innovative HPE Superdome 2 cabinet with programmable status display
Processors supported	<p>Intel Itanium processor 9700 series 2.66 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache</p> <p>Intel Itanium processor 9500 series 2.53 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache</p> <p>Intel Itanium processor 9300 series 1.73 GHz (4-core) with 24 MB shared last-level cache 1.60 GHz (4-core) with 20 MB shared last-level cache</p>	<p>Intel Itanium processor 9700 series 2.66 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache</p> <p>Intel Itanium processor 9500 series 2.53 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache</p> <p>Intel Itanium processor 9300 series 1.73 GHz (4-core) with 24 MB shared last-level cache 1.60 GHz (4-core) with 20 MB shared last-level cache</p>	<p>Intel Itanium processor 9700 series 2.66 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache</p> <p>Intel Itanium processor 9500 series 2.53 GHz (8-core) with 32 MB shared last-level cache 2.13 GHz (8-core) with 24 MB shared last-level cache</p> <p>Intel Itanium processor 9300 series 1.73 GHz (4-core) with 24 MB shared last-level cache 1.60 GHz (4-core) with 20 MB shared last-level cache</p>
Number of processors	2–8	2–16	2–32
Maximum number of cores	64	128	256
Scalable processor chipset	sx3000	sx3000	sx3000
Operating systems supported Choice of Data Center, High Availability, Virtual Server, or Base OEs	HP-UX 11i v3	HP-UX 11i v3	HP-UX 11i v3
Maximum memory (cluster)	4 TB DDR3 (256 x 16 GB)	4 TB DDR3 (256 x 16 GB)	8 TB DDR3 (512 x 16 GB)
External I/O slots	48 external PCIe x8 Gen2	96 external PCIe x8 Gen2	96 external PCIe x8 Gen2
Built-in I/O	32 10GbE ports Pass-through or switch interconnect module	32 10GbE ports Pass-through or switch interconnect module	64 10GbE ports Pass-through or switch interconnect module
Form factor	18U enclosure 4U I/O expansion enclosure HPE Intelligent Series Racks 600 mm wide in both 36U and 42U heights Standard rack door	18U enclosure 4U I/O expansion enclosure HPE Intelligent Series Racks 600 mm wide in both 36U and 42U heights HPE Superdome 2 door with active display	2 18U enclosures in single 19-inch rack 4U I/O expansion enclosure HPE Intelligent Series Racks 600 mm wide in both 36U and 42U heights HPE Superdome 2 door with active display
Management and virtualization	HPE Systems Insight Manager (SIM) HPE Integrity Integrated Lights-Out 3 (iLO 3) HP-UX Virtual Partitions (vPars) HPE Integrity Virtual Machines (VMs) OpenStack for HP-UX		
Software	HP-UX Operating Environments (OEs): Base OE, Virtual Server OE, High Availability OE, Data Center OE	HP-UX OEs: Base OE, Virtual Server OE, High Availability OE, Data Center OE	HP-UX OEs: Base OE, Virtual Server OE, High Availability OE, Data Center OE

HPE Integrity i6 Superdome 2 (continued)

The flagship server in the HPE Mission-Critical Converged Infrastructure—ideal for high-end consolidation, availability, and resiliency

Recommended services	Support		
	HPE Critical Service HPE Proactive 24 Service	HPE Critical Service HPE Proactive 24 Service	HPE Critical Service HPE Proactive 24 Service
	Installation		
	HPE Factory Express Services HPE Installation and Startup	HPE Factory Express Services HPE Installation and Startup	HPE Factory Express Services HPE Installation and Startup
Hardware options	HPE iCAP and TiCAP processors HPE Lights Out Advanced KVM Card Ethernet and Fibre Channel multifunction (combo) adapters 1 Gb/s and 10 Gb/s network adapters 8 Gb/s and 16 Gb/s Fibre Channel host bus adapters 6 Gb/s Serial-Attached SCSI (SAS) Smart Array Controllers Quad Data Rate (QDR) 4X InfiniBand host channel adapters	HPE iCAP and TiCAP processors HPE Lights Out Advanced KVM Card Quad Data Rate (QDR) 4X InfiniBand host channel adapters 1 Gb/s and 10 Gb/s network adapters 8 Gb/s and 16 Gb/s Fibre Channel host bus adapters 6 Gb/s Serial-Attached SCSI (SAS) Smart Array Controllers Quad Data Rate (QDR) 4X InfiniBand host channel adapters	HPE iCAP and TiCAP processors HPE Lights Out Advanced KVM Card Ethernet and Fibre Channel multifunction (combo) adapters 1 Gb/s and 10 Gb/s network adapters 8 Gb/s and 16 Gb/s Fibre Channel host bus adapters 6 Gb/s Serial-Attached SCSI (SAS) Smart Array Controllers Quad Data Rate (QDR) 4X InfiniBand host channel adapters

HPE options

Comprehensive solutions for the HPE Integrity servers

HPE Instant Capacity (iCAP) (processors, memory)	Reduces overprovisioning and helps link IT costs to revenue by deferring these costs until they are actually needed. iCAP hardware is purchased at a fraction of the price of active hardware and does not require software or support. When additional capacity is needed, the remaining portion is paid with no premium, and the component is activated with a simple command, typically requiring no downtime.
HPE Temporary Instant Capacity (TiCAP)	Like a prepaid phone card that provides 30 days of activation for iCAP processor cores, TiCAP is consumed at your own pace, and includes OS and HPE Matrix OE licenses and support. TiCAP allows you to meet short-term peaks in application demands when they occur.
HPE Global Instant Capacity (GiCAP)	Allows you to move the usage rights for hardware and software licenses within a group of servers, effectively deactivating components in one server in order to activate them in another. GiCAP, combined with the HPE Matrix OE, is a unique differentiator that offers automatic load balancing for cost-effective high availability.
HPE Intelligent Series Rack	The HPE Intelligent Series Racks, with optional Location Discovery Services, sends the rack identification number and precise U location to the servers. This provides important location information to iLO and HPE Insight Control software, along with server power and temperature data, allowing you to place workloads more efficiently. Manual, error-prone asset management is removed because servers can now self-identify and inventory themselves.
HPE Fibre Channel and Gigabit Ethernet multifunction adapters	Delivers the performance, flexibility, and high availability you need to support the connectivity requirements for server consolidation in your adaptive enterprise. Both single and dual channels for both Fibre Channel and Gigabit Ethernet are available to help maximize utility from a single I/O slot.
HPE Fibre Channel adapters	The highest level of availability and support when used in conjunction with HPE storage arrays, tape storage systems, and Fibre Channel switches. The dual-channel and single-channel Fibre Channel adapters effectively double performance over previous-generation Fibre Channel adapters. In addition, the Fibre Channel adapters auto-negotiate 1 Gb, 2 Gb, 4 Gb, or 8 Gb transfer rates allowing full legacy support for existing SAN infrastructures to protect your current SAN investment.
HPE 4X InfiniBand adapters	Provides high-speed, low-latency switched fabric solutions enhanced for server clusters. HPE 4X Fabric products provide a leading-edge interconnect for both high-performance computing (HPC) customers who want to deploy clusters for scientific and engineering applications, and for commercial customers who want to deploy highly-available and scalable database clusters.
HPE Lights Out (iLO) Advanced KVM Card	Makes it simpler, faster, and less costly to remotely manage your HPE Integrity servers. The HPE Integrity iLO Advanced KVM card is an optional accessory that combines a physical graphics/USB card with additional logic to enable the Lights Out Advanced Virtual Media and Integrated Remote Console.
HPE Memory Upgrades	HPE branded memory is the easiest way to quickly enhance and improve overall system performance for demanding database and application workloads. HPE memory modules are qualified and tested to strict HPE standards to help facilitate consistently high levels of performance and reliability in HPE servers. Memory upgrade options differ by server. Most HPE Integrity servers offer Double Chip Spare technology.

HPE—the right choice for your enterprise

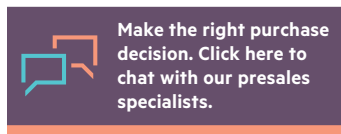
We are here to help you build an infrastructure that's designed for your business needs. HPE is investing to unify across the data center infrastructure so that customers can standardize on management tools, enclosures, power monitoring, etc., while leveraging their investments. Are spiraling power and cooling costs draining your budget? Our energy-saving tools and technologies can help you significantly cut costs by regulating and monitoring power usage across your infrastructure. Are you trying to get the greatest utilization from your data center floor space? We offer a complete portfolio of solutions, including small-footprint options. Do you need help scaling up or out, or designing a data center that can change along with your business needs? Look to HPE. Do you want the broadest range of choice from proven IT providers? Our hardware, software, and service partners deliver thousands of solutions designed specifically for HPE products.

Learn more about the services applicable:
hpe.com/info/services

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment. hpe.com/hpefinancialservices

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