



## HP Integrity Server Blades

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### HP Integrity BL860c i2, BL870c i2 and BL890c i2 Server Blades

#### Overview

The new [HP Integrity server blades](#) are the first scale-up blades to provide improved flexibility and efficiency for mission-critical environments. Through a unified architecture and common management environment, HP Integrity compute resources are pooled and shared across the business. This enables clients to build, adapt and maintain the infrastructure at optimal performance levels without incurring high costs or complexity.

HP Integrity blades leverage the modular and energy-efficient design of the industry-leading [HP BladeSystem](#) architecture. This allows organizations to run their mission-critical applications at half the footprint and at a lower total cost of ownership compared to rack mount servers.<sup>(1)</sup>

With the new Intel® Itanium® processor 9300 series, the Integrity server blades provide businesses with increased performance by up to nine times compared to previous generations.<sup>(2)</sup> The blades ensure business continuity for clients by delivering double the processor reliability over volume processors to significantly improve system availability.<sup>(3)</sup>

#### Adapt to meet increasing business demands

HP Integrity server blades allow clients to realize the benefits of a mission-critical Converged Infrastructure and adapt technology environments to quickly capitalize on business opportunities. Further advantages include:

- Improved flexibility through Blade Link, a new feature that combines multiple blades to create two-, four- or eight-socket systems that easily scale up and out to meet changing computing needs. This enables clients to consolidate critical applications onto a common platform.
- Improved resource utilization with [HP Integrity Virtual Machines](#), which are part of HP Insight Dynamics – VSE software. Integrity Virtual Machines pool hardware and software resources then rapidly allocate them to applications as needed delivering a shared services computing model.
- Maximized investments by easily integrating HP Integrity server blades, [HP ProLiant server blades](#) and [StorageWorks storage blades](#) in the same enclosure, providing flexibility to meet the demands for higher capacity or

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performance.

### **Simplify management and operations**

HP Integrity server blades provide simplified management with a common, single-pane-of-glass environment that helps streamline mission-critical operations. Key benefits include:

- Reduced management complexity with [Virtual Connect Flex-10](#) technology that integrates server and storage connections into a single, easy-to-manage network fabric.
- Increased productivity with the new Infrastructure Orchestration management software. The new online tool can provision and reallocate resources in minutes to meet dynamic business needs.<sup>(4)</sup>
- Reduced time and IT resource requirements with new [HP Integrity Integrated Lights-Out 3 \(iLO 3\)](#), a web-based remote management tool that simplifies server setup, administration and maintenance while enabling optimal power usage.

### **Improve business continuity and availability**

HP Integrity blades help organizations reduce the risk and costs of business downtime by providing high availability as well as quick recovery of applications. These benefits include:

- Double the reliability over servers running x86 processors through new Intel Itanium processor 9300 series features. For instance, Cache Safe Technology detects potential cache failures during computation. Additionally, at the memory level, Integrity blades provide double chip spare, a hardware feature that enables 17 times higher reliability than a server with single-chip spare.<sup>(5)</sup>
- Improved data availability with support for the latest generation PCIe 2.0 network expansion card, which allows higher levels of data transfers at double the speed.<sup>(6)</sup> This enables administrators to share and grow server capacity without disrupting operations.
- Enhanced data protection through Secure Resource Partitions (SRP), a software tool that isolates application files and processes to prevent unauthorized access. This allows clients to run multiple applications securely at the same time.

### **Pricing and availability**

The new HP Integrity blades servers are currently available worldwide with U.S. list prices<sup>(7)</sup> starting at:

- HP Integrity BL860c i2 server blade: \$6,490
- HP Integrity BL870c i2 server blade: \$13,970
- HP Integrity BL890c i2 server blade: \$30,935



- (1) Based on the HP white paper, "The business case for HP BladeSystem with HP Integrity server blades – A Guide for financial and IT managers".
- (2) Based on HP analysis comparing the BL870c i2 to the BL870c.
- (3) Based on HP analysis using reliability modelling based on proprietary data.
- (4) Based on HP customers and HP engineering.
- (5) Double-chip spare feature provides 17 times higher memory reliability than a server with single-chip spare.
- (6) Based on HP analysis comparing previous generation Integrity server blades to the new Integrity server blades.
- (7) Estimated U.S. list pricing for server blades including processors and memory. Actual price may vary.

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