# IBM @server i5 550


## Highlights

- ***Increase business flexibility and productivity with growth options up to a 4-way server***
- ***Reduce complexity and costs by managing multiple operating systems on a single server***
- ***Improve resource utilization with dynamic Micro-Partitioning™***
- ***Flexible, on demand price options for medium businesses***

In today's on demand world, medium and large corporations face increasingly complex IT infrastructures and pressure to meet rising customer expectations with fewer resources and tighter budgets than ever before. A true On Demand Business is one that can respond effectively to market opportunities and external threats. How? Through an IT infrastructure that can adapt quickly to changing business objectives. We call this infrastructure an on demand operating environment.

**Increase business flexibility and productivity**

Designed for the requirements of medium-sized enterprises, the IBM @server® i5 550 server—a new member of the IBM @server iSeries™ family—is specially designed to address the challenges of managing a complex IT infrastructure. The @server i5 550 can improve asset utilization and provide flexible, on demand growth options. The @server 550 is a server with one to four IBM POWER5 processors supporting advanced Micro-Partitioning, virtualization, and management innovations. These IBM Virtualization Engine™ system technologies enable IBM @server i5 550 servers to run multiple operating systems and application environments simultaneously—including IBM i5/OS™ (the next generation of IBM Operating System/400®), Linux®, IBM AIX 5L™, Microsoft® Windows (via an IXA or IXS), Java™, WebSphere® and Lotus® Domino® software. Flexible, on

demand price options enable low cost of acquisition and the flexibility to deploy the applications and operating systems you need as your business grows.

With Capacity on Demand, the @server i5 550 offers options for companies to adapt to changing requirements for processing power. Capacity on Demand enables companies to switch on extra processors or memory on short notice to handle surges in demand. Businesses in a variety of industries experience short-term spikes in processor utilization. Now, instead of buying and maintaining excess capacity that goes unused most of the year, these companies can use On/Off Capacity on Demand to match processing needs to peak transaction loads.

**Reduce complexity and costs**

The IBM @server i5 550 servers incorporate IBM Virtualization Engine™ systems technology, which is designed to pool resources and optimize their use across multiple application environments and operating systems. Through advanced dynamic Micro-Partitioning capabilities, IBM @server i5 550 servers can help support easy administration and rapid adjustment of i5/OS, Linux and AIX 5L workloads to changing business priorities—giving companies the freedom to run a wide variety of business applications without the costs and complexity often associated with managing multiple servers.

With the capacity to support up to ten dynamic micro-partitions per processor, IBM @server i5 servers can help simplify IT infrastructures by allowing companies to deploy new applications and consolidate operations on a single, highly resilient server. Micro-partitioning enables IBM @server i5 servers to adjust pooled processor resources automatically across operating systems by borrowing processing power from idle partitions to help handle high transaction volumes in other partitions.

In addition, the @server 550 server offers powerful and highly cost-effective options to manage Intel processor-based solutions. These options include the IBM Integrated xSeries Server (IXS) and xSeries servers attached via an IBM Integrated xSeries Adapter (IXA). Both products deliver tightly integrated, easily managed Intel server deployment solutions that help provide a cost-effective and efficient alternative to running multiple standalone servers. These Intel processor-based solutions can be used to manage both Windows and Linux workloads.

**Simplify management of IT resources**

The @server i5 550 delivers an advanced storage architecture that provides more flexibility than conventional UNIX, Windows and Linux server implementations. Typical server farm implementations have dedicated disk drives attached to every server and a network administrator must manage each server's capacity separately. With the IBM @server i5 550 server, all disks

can be managed as a single pool of RAID-5 or mirrored, protected storage—helping to simplify data administration and improve productivity by boosting storage utilization rates.

To help businesses manage their IT resources several tools are available to integrate the management of i5/OS, AIX 5L, Linux, and Windows on the @server i5 550. Facilities are available to centralize the management of partitions, storage resources, backup processes, activate Capacity on Demand resources, and automatically respond to events in your infrastructure.

**Improve resource utilization**

Based on IBM POWER5™ processors—the ninth generation of IBM 64-bit processor technology—IBM @server i5 550 servers enable businesses to get the most from their computing resources. Instead of having islands of computing resources, @server i5 dynamic logical partitioning allows processing resources to be automatically moved to where your business demands it. The @server i5 550 can automatically optimize your IT resources for workloads that have peak processing requirements at different times—increasing utilization rates, lowering your costs and simplifying the management of your infrastructure.

**Editions Designed for to Match Your Business**

The @server i5 550 comes with various Edition options, including Standard, Enterprise and Solution Editions, that are designed to meet the demands of a variety of medium-to-large size enterprises. Every 550 edition includes two activated processors, one i5/OS processor license, and a WebSphere-Express processor license.

## Description

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|---|---|
| **Model** | IBM @server i5 550 |
| **Processor** | 1- to 4-way<br>POWER5 |
| **Edition** | Standard, Enterprise or Solution |
| **Processor Commercial Processing Workload (CPW)** | 3,300/12,000 |
| **5250 OLTP CPW** | 0 or Max |
| **Memory (max)** | 64GB |
| **Disk Capacity (max)** | 38TB |
| **Disk Drives (max)** | 548 |
| **i5/OS included** | Yes (1 processor license) |
| **Software Tier** | P30 |
| **Windows Server, Linux, AIX 5L Capable** | Yes |
| **Rack-Optimized or Deskside Design** | Both |
| **Integrated xSeries® Servers (max)** | 36 |
| **Integrated xSeries Adapters (max)[1]** | 16 |
| **LPARS (max i5/OS, AIX 5L, Linux)** | 40 |
| **High Speed Link (RIO/HSL) Loops (max)** | 2 |
| **I/O Towers/Drawers (max)[1]** | 12 |
| **PCI Cards Slots (max)** | 173 |
| **LAN Ports (max)** | 96 |

[1] The installed combination of I/O Towers and Drawers plus Integrated xSeries Adapters cannot exceed 18.

**For more information**

To learn more about the IBM @server i5 550 server contact your IBM representative, IBM Business Partner or visit the following Web sites:

**ibm.com**/eserver/iseries



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