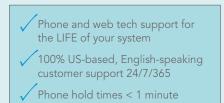# The *affordable* server solution

Taking care of business is easy and affordable with Howard's new entry-level, expandable server solution, the i7408. Featuring Intel's Xeon® Processor 3400 Series, up to 24GB of DDR3, and six hot-swap SATA/SAS hard drives, the i7408 offers higher levels of performance, storage space, energy-efficiency, and reliability. It utilizes the latest Intel® Core™ i5 and i7 technology that includes Turbo Boost, Hyper-Threading, and Virtualization technologies. In short, it has everything you need to run business applications, host web sites, and provide basic server functionality such as file and print sharing. The i7408 upgrades easily to accommodate growing business needs, and it's easy on the budget.

Howard Technology Solutions recommends genuine Microsoft® Windows® Server 2008 R2.

The Howard Advantage!

With every Howard product purchase, you receive the following for **FREE**!

- ✓ Phone and web tech support for the LIFE of your system
- ✓ 100% US-based, English-speaking customer support 24/7/365
- ✓ Phone hold times < 1 minute

*Experience the **Howard** difference.*

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Feature	Description
Intel® Xeon® 3400 Series Processors	The Intel® Xeon® 3400 processor series is based on Intel's next-generation microarchitecture, and includes an integrated high-speed, 1333MHz dual-channel DDR3 memory controller, and flexible x16 PCI Express 2.0 controller.
Superior Performance	The i7408 utilizes the latest Intel® Core™ i5 and i7 technology, a platform integrated with the Intel's most advanced technologies like Turbo Boost Technology, Hyper-threading Technology, Virtualization Technology, and Advanced Smart Cache.
Integrated RAID	The i7408 features integrated RAID 0, 1, and 5, for greater speed, increased storage capacity, and total data reliability.
Expndable	Howard's i7408 has 4 internal expansion slots and up to 6 memory DIMMS (24GB max).
Maximum Efficiency	The i7408 supports a lower power option processor that operates at 45W thermal design power (TDP) to provide an ideal entry-level server in thermal sensitive, space constrained environments. In addition, the CPU cores included Automated Low Power States that adjust system power consumption based on real-time CPU loads.
Versatile	The tower chassis can be converted to rack-mount for installation.

HOWARD™
TECHNOLOGY SOLUTIONS

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Feature	Specification
Chipset	Intel® 3420 chipset
Supported Operating Systems	Microsoft® Windows Server® 2003 and 2008, all versions Red Hat Enterprise Linux 5.0 Update 3, SuSE 11, VMWare 4.0 Update 1
Supported Processor Families	Intel® Xeon® 3400 Series processors- Socket 1156
System Memory	Up to 24GB of Registered ECC DDR3 (6 slots)
Video	ServerEngines LLC Pilot II, 64MB DDR2 video memory
Network	Intel® 82574L PCI Express Gigabit Ethernet Controllers and Intel® 82578DM Gigabit Ethernet LAN connections
Internal Ports	IDE: 0, Floppy: 0, SATA=6; PCI=1; PCI-X=0; PCI-e x1=0; PCI-e x4=1; PCI-e x8=2; PCI-e x16=0
External Ports	Serial: 1; PS/2: 0; USB: 4 rear, 2 internal headers; Audio N/A; Gigabit LAN: 2; Video: 1 standard VGA
Other Features	Integrated IPMI 2.0 Baseboard Management Controller, and KVM over LAN
Dimensions	17.8" (H) x 9.256" (W) x 19.0" (L) (inches)
Backplane	Optional with Hot-swap drive bay
3.5" Drive Bays	Hot-swap hard drives x6, External: 1
5.25" Drive Bays	External: 1
Floppy Bays	External: 1
Front Panel	2 USB connections
PSU	Single 400W (110 to 240W AC) 80-Plus power supply
Form Factor	4U tower; can be converted to rackmount

Q: Can this server handle VoIP applications and performance requirements?

A: Yes, even in the base configuration.

Q: Does Howard offer installation services with this system?

A: Yes, Howard has a Network Services Group that can install systems, as well as perform security analysis and other technical services. Call us today for a quote.

Q: Why is there such a long lead time?

A: Simply put, it is because we custom build each system once ordered, and then, thoroughly test it to ensure it will meet or exceed our customer's expectations.

Q: How will this product be supported?

A: This product will be supported through Howard's 100% US-based team of experts, available 24 hours-a-day, 7 days-a-week, FREE for the life of the system to the original purchaser of the system. (For all non-Howard products we direct customers to the applicable vendor.)

Q: What is the operating system support in this server?

A: It supports Windows Server® 2008 R2 Standard Edition, Enterprise Edition, Web Edition, and Windows Server® 2008 R2 Foundation. Be aware that Windows Server® 2008 R2 is available in 64 bit operating systems only, and can support 32GB memory and up. Optionally, Windows Server® 2003 (all editions) can be supported by downgrading the Windows Server® 2008 R2 Edition.

Call Howard Technology Solutions—

For world-class support and service we are available:
Online at http://www.howardcomputers.com/support
By phone at 1.888.323.3151
Via email at tech@howardcomputers.com
Conventional mail at: Howard Technology Solutions, 36 Howard Drive, Ellisville Mississippi 39437

Experience the Howard advantage.

Product Upgrades

Enhance your purchase with any or all of the following products or services. And feel free to contact us toll free at 888-912-3151 to discuss any questions or your specific needs!

- Additional memory
- Anti-virus software
- Uninterrupted power supply
- Optional storage controllers
- Network consulting and integration services

Warranty & Support

- Howard Technology Solutions' standard warranties apply.
- **FREE** customer and technical support to purchaser via telephone or web for the life of the system.
- Expedite your troubleshooting process by participating in our Howard Technical Partnership Program (HTPP) which certifies your staff to perform basic hardware service and support. Contact us for more information.