

Step IT up— without breaking the bank



Take the next step in your IT growth without breaking the bank! Howard's new S108 rack-mount server is powered by Intel's Quad Core Xeon® 3000 Sequence processors, and features DDR3 memory, hot-swappable SATA or SAS hard drives, configurable RAID, and high-efficiency (1+1) redundant power supply. It has everything you need to run business applications and infrastructure, host web sites, and provide basic server functionality such as file and print sharing. It includes a system health monitor that displays crucial server information to ensure data integrity, high-reliability, and high-availability. It's easily upgradeable, and surprisingly affordable, so step IT up with the server that's right for your business—the Howard™ S108.

Howard Technology Solutions recommends genuine Microsoft® Windows® Server 2003.

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
- ✓ Reliable disaster recovery software

Experience the **Howard difference.**



Intel®, Intel® Core™ 2 Quad logo, and Intel® Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

| Feature | Description |
|------------------------------|--|
| Processors and Memory | The S108 supports Intel's Xeon® 3000 Series processors, Intel® Core™ 2 Quad and Core™ 2 Duo Series processors with DDR3 1066MHz or 1333MHz memory. |
| (1+1) Redundant Power Supply | The S108 is a 1U rack-mount server with (1+1) high-efficiency 450W redundant power supplies. |
| SATA/SAS Support | It supports up to four Hot-swap 3.5" SATA or SAS hard drives, configurable in RAID 0, 1, 5, and 10. |
| Remote Management | The Intelligent Management Adapter is optional. The system is able to support IPMI 2.0 with virtual media, and KVM over LAN for remote management capability. |
| Expansion Slots | The S108 supports up to two full-height PCIe x8 slots and one low-profile PCIe x4 slot via integrated riser cards for server upgrade and expansion capability. |

HOWARD™
TECHNOLOGY SOLUTIONS

Experience the **Howard advantage!**

Buy online at www.Howard.com or call us at 888.912.3151.

| Feature | Specification |
|------------------------------|---|
| Chipset | Intel® X48 chipset |
| Supported Operating Systems | Microsoft® Windows Server® 2003 and Windows Server® 2008 |
| Supported Processor Families | 1x Intel® Celeron® Dual Core E1000, Pentium® Dual Core E2000, Intel® Core™2 Duo/Quad/Extreme, and Intel® Xeon® 3000 Series processor with 800/1066/1333/1600 MHz front side bus |
| System Memory | Up to 8Gb of PC3-10600 memory in 4x DIMM sockets on system board |
| Video | Integrated ATI® ES1000 32MB graphics |
| Network | Intel® 82573(V/L) dual port Gigabit Ethernet Controller |
| Internal Ports | IDE: 1, Floppy: 1, SATA: 6, PCI-e x4: 1 in low profile, PCI-e x8: 2 |
| External Ports | Serial: 1, PS/2: 2 USB: 2 rear, 2 internal headers LAN: 2 Gigabit Ethernet ports, Video: 1 standard VGA |
| Hard Drives | 4 Hot-swap hard drives (3.5" drive bays) |
| Ports | Rear panel: 4 USB 2.0; 1 VGA; 2 Gigabit Ethernet; 1 console port Front panel: 2 USB 2.0; 1 VGA |
| Power Supply | Redundant (1+1) 450W or single 560W power supply (110V AC) |
| Form Factor | 1U rack-mount |
| Dimensions | 1.7"H x 17.2"W x 25.6"L |

Q: Does this system replace another Howard product?

A: No. The S108 provides an alternative to the S104.

Q: Can this server support an office of 10-15 employees?

A: Yes, with room to expand, if needed.

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

A: Yes, even in the base configuration.

Q: What is Quad Core and why is it important?

A: Quad-Core is the process of taking a single piece of silicon chip composed of an integrated circuit and placing four processor cores on it. This effectively gives you a quad-processor configuration in a single package.

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.

Q: Does this server support the Windows 2008 operating system?

A: Yes, it supports the Windows Server® 2008 32/64 Bit Standard or Enterprise Edition with or without Hyper-V, and the Windows Server 2008 32/64 Bit Web Edition. Be aware that 32 bit operating systems only support up to 4GB memory, while 64 bit operating systems can support 32GB memory and up.

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

By email at tech@howardcomputers.com

By 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
- Optional storage controllers
- Remote management adapter
- Optional network adapters
- 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.