

## Performance-per-dollar WINNER!

Powerful, new 5<sup>th</sup> generation Xeon® processors, improved memory performance, at least a 10% increase in performance per core, and almost no cost increase, make Howard's new SE5-228v3 server solution the undisputed performance-per-dollar winner this year! You get 1TB DDR4 memory, 8 hot-swappable SATA or SAS hard drives, and remote management software that provides detailed information on system health, performance, power cycle management, and more. It has support for Microsoft Windows Server® 2008 or 2012 and comes in a 2U rack-mount form factor with dual redundant power supplies. The SE5-228v3 has everything necessary to provide small to medium-size businesses with a reliable platform that promotes user productivity and data security. Get the right server solution at the right price—the SE5-228v3 from Howard.



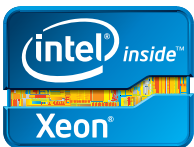
Howard Technology Solutions recommends genuine Microsoft® Windows® Server 2012.

### 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
New E5 v3 Xeon® Platform	Utilizes the newest Intel® E5-2600 v3 processor technology
Integrated RAID	Provides cost effective hard drive redundancy without add in cards
Networking	Integrated Intel® i350 Ethernet controller with dual Gigabit Ethernet ports
Expandability	6 internal expansion slots and up to 16 memory DIMMS (1TB Max)
OS Certifications	VMWare ESXi
Energy Efficient	Power enhancements for lower TCO and green initiatives



# Servers - Howard SE5-228v3

Feature	Specification
Chipset	Intel® C612 chipset
Supported Operating Systems	Windows Server® 2012/2008 R2; VMWare (ESXi 5.5; ESXi 5.1 U1)
Supporting Processor Families	Intel® E5-2600 v3 Series Xeon processors Socket R
System Memory	Up to 1TB of ECC DDR4 (16 slots)
Video	Integrated graphics
Network	Dual Gigabit Intel i350 Gigabit NICs
Internal Ports	<ul style="list-style-type: none"><li>• SATA 3=10</li><li>• PCIe x4 Gen 3=1</li><li>• PCIe x8 Gen 3=7</li><li>• PCIe x4 Gen 2.x=1</li></ul>
External Ports (Rear Panel)	<ul style="list-style-type: none"><li>• Serial=2</li><li>• USB 3.0 = 6 ports</li><li>• LAN=2, 1GbE</li><li>• Video=1, VGA</li></ul>
Additional Features	Integrated IPMI 2.0 for remote hardware management, power interface, & KVM over LAN
Chassis Technical Specifications	
Dimensions	17.2" (437mm) x 3.5" (89mm) x 25.5" (648mm)
Backplane	Included
3.5"/2.5" Drive Bays	External = 8 hot-swap
Front Panel	USB=2
PSU	740W (110v to 240v AC), Redundant

## Q: Why such a long lead time?

A: Simply put, it's because we custom build each system as it is ordered and, then, thoroughly test it to ensure it will meet and/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 for FREE to the original purchaser for the life of the system.

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

A: It supports Windows Server® 2012 R2 Standard Edition, DataCenter Edition, and Windows Server® 2012 R2 Foundation. Optionally, Windows Server® 2008 (all editions) can be supported by downgrading the Windows Server® 2008 R2 Edition. Be aware that Windows Server® 2008 R2 is available in 64 bit operating systems only.

## Q: Does Howard Technology Solutions offer installation services with this system?

A: Yes, HowardTechnology Solutions has a Network Services team that can perform installation of systems, as well as network security analysis and other technical services. Call us today for a quote.

## Q: Whom should I contact for support?

A: Remember, for non-Howard products (e.g., Panasonic, Motion, Fujitsu tablet), we direct customers directly to the applicable vendor.

## 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](mailto: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
- Back-up devices
- Technical management 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.