

Build your business on a solid IT infrastructure

Is your datacenter ready to meet the demands of today's high-speed economy? You need results faster; data is bigger, information requirements are increasing, and it's all competing for your server storage and network capacity. Stay ahead of the demand with Howard's new flagship 4U server platform, the IE5-228v3.

Built on Intel's Xeon E5 v3 CPU family, the IE5-228v3 offers features like DDR4 memory, integrated IPMI for remote management, and built-in power capabilities that improve performance, increase energy efficiency, and reduce capacity requirements. Advanced technologies such as Intel® Embedded Server RAID and Rapid Storage Technology, hot-swappable hard drives, and uncompromising quality control virtually eliminate system downtime, which saves you money. Add to that a top-rated warranty and lifetime technical support, and we're talking seriously low TCO.

Build an IT infrastructure strong enough to support your business now and in the future. Get the IE5-228v3 server solution 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 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® X540 Ethernet Controller with dual 10GbE RJ-45 Ethernet ports
Expandability	Nine internal expansion slots and up to 24 memory DIMMS (32GB Max)
OS Certifications	MS Windows Server® 2012 R2 and MS Windows Server 2008 R2
Energy Efficient	Power enhancements for lower TCO and green initiatives

Servers - Howard IE5-228v3

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 3TB of ECC DDR4 (4 slots)
Video	Integrated graphics
Network	Dual Gigabit Intel X540 10GbE NICs
Internal Ports	<ul style="list-style-type: none">• SATA=10• PCIe x4 Gen 3=1• PCIe x8 Gen 3=7• PCIe x4 Gen 2.x=1
External Ports (Rear Panel)	<ul style="list-style-type: none">• Serial= 2• USB 3.0= 3• USB 2.0= 2• Audio= N/A• LAN=2, 10GbE• Video=1, VGA
Chassis Technical Specifications	
Dimensions	16.93"(438mm) x 3.44"(173mm) x 27.95"(546mm)
Backplane	Included
3.5"/2.5" Drive Bays	3 external = 8 hot-swap
Front Panel	USB=2
PSU	1100 (110 to 240W AC), Redundant capable

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.

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
- 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.