



Welcome to the **Howard** Family

Sophisticated, high-performance systems



2014

DESKTOPS | NOTEBOOKS | TABLETS | SERVERS | CARTS

The **Howard** Story

The evolution of the Howard Advantage

The Howard Advantage starts with being an actual manufacturer by trade, and not simply an integrator of parts. Howard Industries, our parent company, was founded in 1968 by Billy Howard, Sr. Over the past four decades, this company has grown to become the nation's leading manufacturer of distribution transformers, with nearly 9 million transformers in service throughout the United States and abroad.

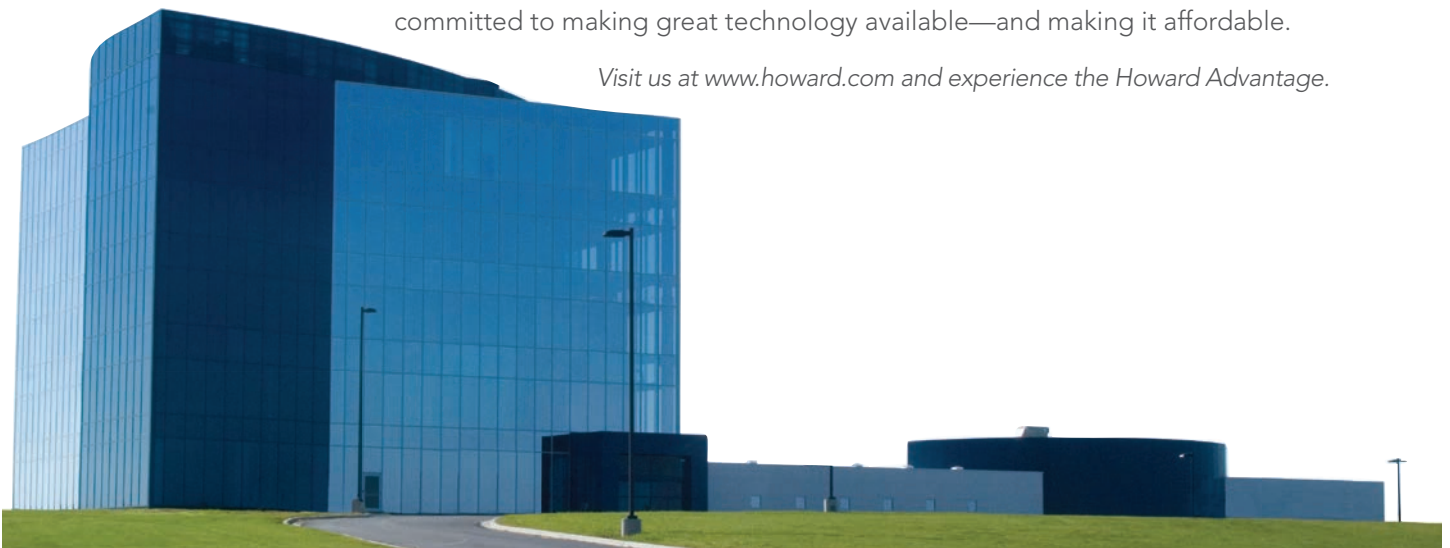
Howard's firmly established position as a leader of industry served as the springboard for a new division, which began production of computer technology in 1998, Howard Technology Solutions (HTS).

Howard (HTS) designs and manufactures its own desktops, notebooks, and servers, as well as a variety of enterprise mobility solutions. In addition, strategic partnerships with other industry leaders enable us to offer a rich portfolio of over 250,000 name brand products. We have dedicated representatives for each of the products we have listed, who are equipped with the knowledge and expertise to answer questions and assist in the buying process. From purchase and delivery to installation, management, and servicing by industry-certified technicians, Howard is with you every step of the way.

We provide **government agencies and schools** with innovative and affordable technology. We help **medical facilities** maximize productivity and improve patient care, and we support **first responders in emergency situations** by facilitating communication among diverse systems and organizations. From single components for individual **consumers** to large-scale solutions for **commercial businesses**, we supply superior technology.

Howard's reputation for outstanding customer service sets us apart and inspires customer loyalty. We are committed to making great technology available—and making it affordable.

Visit us at www.howard.com and experience the Howard Advantage.





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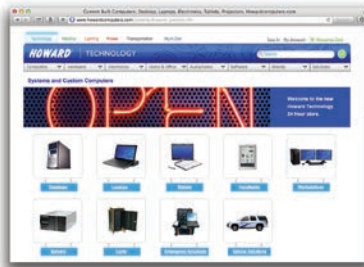


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The One-Stop-Shop for all your technology needs.
Visit us and browse online today at www.howardcomputers.com.



HTPP

Ask us about our Howard Technical Partnership Program.
It's fast, flexible, and free.



Get Social.

Find something great you want to share?

Let us know on Facebook and Twitter! We love to hear your feedback and recommendations.



Install, Integrate, Image
Our Professional Services team can handle the entire installation, integration, and computer imaging of your new Howard systems!



The **Howard** B85

Sophisticated, high-performance



B85



Processor: Intel Pentium G3220 Haswell 3.0GHz LGA 1150 54W Dual-Core Desktop Processor

Operating System: Microsoft Windows® 7 and Windows® 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN

It's definitely "game on" with Howard's new B85 desktop computer. Whether you're a gaming enthusiast or corporate professional, the B85 gives you the speed and high performance you need to tackle the most demanding software applications. It's powered by sophisticated 4th Generation Intel® i-Core™ processors, with features that include a Windows® 8-ready motherboard, DDR3, USB 3.0, and RAID technology. In addition, built-in support from Intel's Small Business Advantage technology gives you the advantage by minimizing PC downtime, boosting operation processes, and protecting your data through continuous monitoring of security software and automatic backups. From business to entertainment—Dominate your game with Howard's B85.

Howard Computer Systems

Custom computers for your every need.

Why should you buy a Howard system? Learn about our great benefits.

We offer superior product quality:

- Howard products are made and assembled here in the USA and are thoroughly tested for quality assurance
- We use high quality components from manufacturers such as Intel, Kingston, LG, Samsung, Coolermaster and Foxconn

You get a better customer service experience with Howard:

- We have 100% U.S. Based Customer Support
- No automated phone system to get to your Dedicated Account Manager
- 24/7 Tech Support for LIFE!



Value priced systems, ideal for browsing the internet, emailing, or creating word documents.



Affordable systems for playing games, multi-media playback, or everyday business applications.



Enough power for any workload; high-performance upgrades, enhanced security, and long-life cycles.



B85LPKB



B85AKB



B85MKB



M10C

Processor: Intel Pentium G3220 Haswell 3.0GHz LGA 1150 54W Dual-Core Desktop Processor
Operating System: Microsoft Windows® 7 and Windows® 8
Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)
Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer
Optical Drive 1: DVD+/-RW Drive
Graphics Card: Integrated Intel Graphics
Network Card: Integrated 10/100/1000 Gigabit LAN



Processor: Intel Pentium G3220 Haswell 3.0GHz LGA 1150 54W Dual-Core Desktop Processor
Operating System: Microsoft Windows® 7 and Windows® 8
Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)
Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer
Optical Drive 1: DVD+/-RW Drive
Graphics Card: Integrated Intel Graphics
Network Card: Integrated 10/100/1000 Gigabit LAN



Processor: Intel Pentium G3220 Haswell 3.0GHz LGA 1150 54W Dual-Core Desktop Processor
Operating System: Microsoft Windows® 7 and Windows® 8
Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)
Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer
Optical Drive 1: DVD+/-RW Drive
Graphics Card: Integrated Intel Graphics
Network Card: Integrated 10/100/1000 Gigabit LAN



Processor: Integrated Intel Celeron 847 (Dual-Core, 1.1GHz) Processor, Intel HD Graphics
Operating System: Microsoft Windows® 7 Professional
Memory: 4GB PC10600 DDR3 1333 SDRAM (1 X 4GB)
Hard Drive: 320GB SATA Hard Drive, 7200RPM
Graphics Card: Intel GMA 3150 Graphics with 1x VGA (1920x1080), 1x HDMI (1366x768)
Network Card: Integrated Network Adapter (see motherboard for details)
Additional Network Interface: Integrated 802.11b/g/n Wireless



The **Howard** H61N1

Simplicity, reliability, and affordability—all-in-one



H61N1



Processor: Intel® Pentium G645, Dual-Core, 2.9GHz, 3MB L3 Cache, 65W, Intel HD Graphics

Operating System: Microsoft Windows® 7 Professional

Memory: Up to 16GB of DDR3 (2 slots, SO-DIMMs)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: Slimline DVD-RW, SATA, Tray Load

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN

Motherboard: *NEW* Intel® H61 Express Chipset, Thin Mini-ITX Motherboard, 1 x HDMI, 4 x USB 2.0

Howard's new H61N1 all-in-one desktop computer is rich with compelling features that balance polish with performance—affordably. Its stylishly thin chassis, which fits easily into small spaces, is the perfect outside to the “Thin Mini-ITX” motherboard inside, with two-screw access to all components, radically simplifying maintenance and upgrades. Based on Intel's new H61 Express chipset and 3rd generation Intel® Core™ processor family, the H61N1 offers true high performance and reliability. It features integrated Intel® HD graphics, superior wireless connectivity, solid-state hard drives for ultra-fast storage, and a multi-touch screen that puts total control right at your fingertips. The new Howard H61N1—intelligent performance and exceptional reliability at a great price. It's simply the best!



The Howard B75AKB
Performance, Security, and IT Simplicity



From corporate environments to small business ventures, Howard's new B75 desktop computer delivers the perfect mix of performance, security, and IT simplicity. Built-in support from Intel's Small Business Advantage technology gives you the advantage by minimizing PC downtime, improving workflow, and protecting your data through continuous monitoring of security software and automatic backups. Powered by the most sophisticated 3rd Generation Core™ i7 and i5 processors, the B75 delivers enough power for even the most demanding workloads. It features onboard DirectX 11 compliant graphics engine, 5.1-channel HD audio, and a range of connectivity options including SATAII, SATAIII and USB 3.0. It's your business—take care of it with the new B75 from Howard.

Processor: Intel® Celeron G1610, Dual-Core, 2.6GHz, 2MB L3 Cache, 55W, Intel HD Graphics

Operating System: Microsoft Windows® 7 and Windows® 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



B75MKB

Processor: Intel® Celeron G1610, Dual-Core, 2.6GHz, 2MB L3 Cache, 55W, Intel HD Graphics

Operating System: Microsoft Windows® 7 and Windows® 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



B75LPKB

Processor: Intel® Celeron G1610, Dual-Core, 2.6GHz, 2MB L3 Cache, 55W, Intel HD Graphics

Operating System: Microsoft Windows® 7 and Windows® 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



H61ALPKB

Processor: Intel® Celeron G1610, Dual-Core, 2.6GHz, 2MB L3 Cache, 55W, Intel HD Graphics

Operating System: Microsoft Windows® 7 Professional

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



H61AMKB

Processor: Intel® Celeron G1610, Dual-Core, 2.6GHz, 2MB L3 Cache, 55W, Intel HD Graphics

Operating System: Microsoft Windows® 7 Professional

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



H61AMini

Processor: Intel® Celeron G1610, Dual-Core, 2.6GHz, 2MB L3 Cache, 55W, Intel HD Graphics

Operating System: Microsoft Windows® 7 Professional

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



The **Howard** Q87LPKB

Super fast, super smooth, super secure



Q87LPKB



Processor: Intel Pentium G3220 Haswell 3.0GHz LGA 1150 54W

Operating System: Microsoft Windows® 7 and 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN

Get stunning visuals, improved manageability, and enhanced security with Howard's new Q87 desktop computer. Powered by Intel's super-fast 4th Generation processors, the Q87 delivers a high-speed PC experience that is super-smooth and super-secure. It has top-of-the-line features, such as high-endurance 5X Protection, Intel® vPro business-grade technology, and USB 3.0 Boost technology for increased transmission speeds of up to 170%. Moreover, the Q87's chipset supports iGPU functionality, letting users enjoy the latest Intel® integrated graphics performance. For business professionals, teachers and students, or casual gamers, the Q87 offers industry-leading performance and responsiveness at an affordable price.



The Howard Q87AKB
Super fast, super smooth, super secure



Get stunning visuals, improved manageability, and enhanced security with Howard's new Q87 desktop computer. Powered by Intel's super-fast 4th Generation processors, the Q87 delivers a high-speed PC experience that is super-smooth and super-secure. It has top-of-the-line features, such as high-endurance 5X Protection, Intel® vPro business-grade technology, and USB 3.0 Boost technology for increased transmission speeds of up to 170%. Moreover, the Q87's chipset supports iGPU functionality, letting users enjoy the latest Intel® integrated graphics performance. For business professionals, teachers and students, or casual gamers, the Q87 offers industry-leading performance and responsiveness at an affordable price.

Processor: Intel Pentium G3220 Haswell 3.0GHz LGA 1150 54W

Operating System: Microsoft Windows® 7 and 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



Q87MKB



Processor: Intel Pentium G3220 Haswell 3.0GHz LGA 1150 54W

Operating System: Microsoft Windows® 7 and 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD+/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



Customer Support

Experience the Howard Advantage and speak to our 100% US based customer support team at anytime.



Go to howardcomputers.com. call (888) 912-3151 to speak with a representative for more info.



The Howard HM76 NANO
Space saving, energy efficient computing made powerful



Don't let its size fool you, Howard's new palm-sized computer, the HM76-Nano, is performance-optimized for high speed. This space-saving PC is powered by the latest Intel® Core™ i7 processor. This means the Nano is—you guessed it— ULTRA SMALL and SUPER-FAST! With integrated USB 3.0, the Nano also delivers the latest and fastest USB protocol, with I/O speed up to 10 times that of its predecessor. The Nano supports dual display design for flawless high-definition video playback, pictures, web pages, RSS and scrolling text for dynamic and real-time promotions; it supports high-precision input for all your favorite applications and runs on low power, making it energy efficient and cost effective.

Processor: Integrated CPU, See Case for Details and Options

Operating System: Microsoft Windows® 7 and 8

Memory: 4GB PC10600 DDR3 1333 SDRAM (1 X 4GB)

Hard Drive: 320GB SATA Hard Drive, 7200RPM

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN

Additional Network Interface: Integrated 802.11b/g/n Wireless



Q77LPKB



Q77AKB



Q77MKB



QS77-IQ

Processor: Intel® Pentium G645, Dual-Core, 2.9GHz, 3MB L3 Cache, 65W, Intel HD Graphics

Operating System: Microsoft Windows® 7 and 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD +/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



Processor: Intel® Pentium G645, Dual-Core, 2.9GHz, 3MB L3 Cache, 65W, Intel HD Graphics

Operating System: Microsoft Windows® 7 and 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD +/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



Processor: Intel® Pentium G645, Dual-Core, 2.9GHz, 3MB L3 Cache, 65W, Intel HD Graphics

Operating System: Microsoft Windows® 7 and 8

Memory: 2GB PC3-12800 DDR3-1600 SDRAM (1 x 2GB)

Hard Drive: 500GB SATA-600, 7200RPM, 16MB Buffer

Optical Drive 1: DVD +/-RW Drive

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN



Processor: Integrated CPU, See Motherboard for Details and Options

Operating System: Microsoft Windows® 7 and 8

Memory: 2 GB - SO DIMM 204-pin - DDR3 - 1600 MHz / PC3-12800 - CL11 - 1.5 V - unbuffered - non-ECC

Hard Drive: SSD 60GB, mSATA, SATA-600

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN

Motherboard: Intel QS77 Chipset, Intel Core i3-3217U integrated CPU, Intel HD graphics 4000, 3x USB 2.0, 2x HDMI out



The Howard IQ2

One ultra-compact PC that makes a BIG impact



Be you.
Customize your Howard IQ2
with a skin that's so you!



Processor: Integrated CPU, See Motherboard for Details and Options

Operating System: Microsoft Windows® 7 and 8

Memory: 4GB DDR3-1333 (PC3 10600) SODIMM 1.35V 204 PIN

Hard Drive: SSD 60GB, mSATA, SATA-600

Graphics Card: Integrated Intel Graphics

Network Card: Integrated 10/100/1000 Gigabit LAN

Motherboard: Intel NUC D34010WYK, Mini HDMI, Mini DisplayPort, USB 3.0, Intel HD Graphics 4400, 4th Gen Intel Core i3-4010U

Just when you thought desktop computers couldn't get any smaller Howard introduces its newest PC, the IQ2—sleek, shiny, and not much larger than a smartphone. But don't let its size fool you. Powered by Intel's 4th generation Core™ i5 processors and equipped with the latest smart technologies, such as Intel® Turbo Boost 2.0, Rapid Start, and Smart Connect Technology, the IQ2 offers tremendous processing power and exceptional reliability. It comes complete with Intel® HD Graphics 5000 to ensure a brilliant HD experience, Intel® Quick Sync Video for fast video encoding, and DisplayPort 1.2 for driving 4k displays. The Howard IQ2: BIG computing in a tiny chassis. The intelligent choice in desktop computing.



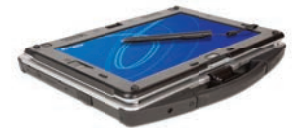
The Howard Jag R13C

All weather, fully rugged



The new Jag R13C is Howard's solution for a mainstream fully rugged notebook. Tested rigorously to MIL-STD-810G requirements for drop, shock, spill, and dust resistance and rated IP65 for water and dust protection, the Jag R13C is tough—tough enough for any industry with high mobility requirements. And that's not all! The Jag R13C transforms quickly and easily into a Tablet PC for ultimate flexibility and functionality. It features a 13.3" Sunlight Readable LCD to ensure that the screen is viewable in all levels of light, a fingerprint reader, a webcam, and numerous interfaces for connecting your favorite accessories. The Jag R13C uses an Intel® QM57 chipset that has support for Intel's Core™ i7 processors and supports 802.11AGN and Bluetooth wireless options. Challenging environment? Meet the challenge with Howard's new Jag R13C!

- Processor:** 2.0GHz max turbo 2.8GHz, Intel Core i7-620LM vPro 4MB Smart Cache, integrated
- Operating System:** Microsoft® Windows® 7 SP1 Professional 32-bit OEM (System Builder) License and Media
- Memory:** 4GB PC10600 DDR3 1333 SDRAM Included (1 x 4GB) (U12C, R13C)
- Hard Drive:** 320GB SATA 5400RPM Hard Drive or 160GB Solid State Drive
- Optical Drive 1:** 24x/8x DVD+/-RW DL Drive



Jag U12C

- Processor:** 1.33GHz Intel Core i5 560UM Dual Core, 3MB L3, Turbo Boost 2.13GHz (JAG U12C)
- Operating System:** Microsoft® Windows® 7 SP1 Professional 32-bit OEM (System Builder) License and Media
- Memory:** 2GB PC10600 DDR3 1333 SDRAM (1 X 2GB)
- Hard Drive:** 320GB SATA Hard Drive, 7200RPM
- Network Interface:** Integrated Gigabit NIC 10/100/1000



W130



- Processor:** Intel Core i5 - 3320M - 2.6 GHz - PGA988 - L3 cache - 3 MB
- Operating System:** Windows 7 Professional 64-bit (Windows 8 Professional 64-bit down-grade); DPK
- Memory:** 4GB PC10600 DDR3 1333 SDRAM (1 X 4GB)
- Hard Drive:** 320GB SATA Hard Drive, 7200RPM
- Network Interface:** Integrated Gigabit NIC 10/100/1000



1755



- Processor:** Intel Core i5 - 3320M - 2.6 GHz - PGA988 - L3 cache - 3 MB
- Operating System:** Windows 7 Professional 64-bit (Windows 8 Professional 64-bit down-grade); DPK
- Memory:** 4GB PC10600 DDR3 1333 SDRAM (1 X 4GB)
- Hard Drive:** 320GB SATA Hard Drive, 7200RPM
- Optical Drive 1:** 24x/8x DVD+/-RW DL Drive w/ CyberLink



1763



- Processor:** Intel Core i7 - 4700MQ up to 3.4GHz 6M tray, PGA 946 socket, Haswell 4th Gen
- Operating System:** Windows 7 Professional 64-bit (Windows 8 Professional 64-bit down-grade); DPK
- Memory:** 8GB 1600MHZ LV SODIMM 1.35V
- Hard Drive:** 320GB SATA Hard Drive, 7200RPM
- Optical Drive 1:** 24x/8x DVD+/-RW DL Drive w/ CyberLink



16G1



- Processor:** Intel 4th Gen Haswell, Core i3 - 4000M - 2.4 GHz - FCPGA946 - L3 Cache - 3 MB
- Operating System:** Microsoft® Windows® 7 and 8 Pro 32/64-bit
- Memory:** 8GB 1600MHZ LV SODIMM 1.35V
- Hard Drive:** 320GB SATA Hard Drive, 7200RPM
- Optical Drive 1:** 24x/8x DVD+/-RW DL Drive w/ CyberLink
- Graphics Card:** Integrated Intel HD Graphics



The **Howard** 2GOPCT4

Live and learn



2GOPCT4



Processor: 1.10GHz Dual-core Intel® Celeron™ 847 NM70 Chipset

Operating System: Microsoft® Windows® 7 and 8 Pro 32/64-bit

Memory: 2GB DDR3 SDRAM Included

Hard Drive: 320GB SATA Hard Drive

Graphics Card: Integrated Intel HD Graphics

Network Interface: Integrated NIC 10/100

The 2go PCT4, Howard's newest convertible classmate PC, is purpose-built for learning and powerful enough to support a wide variety of education-focused applications and software. It's powered by the latest Intel® dual-core Celeron™ 847 processor and uses Intel's NM70 chipset for increased levels of computing power, performance, and efficiency. The 2go PCT4 includes Intel's HD 2000 graphics package, DDR3, a webcam and a swiveling, 5-point capacitive touch screen that responds to even the lightest touch of a finger. In addition, the 2goPCT4 supports 802.11AGN and Bluetooth wireless options, as well as the convenience of a retractable carrying handle, drop-resistant construction and a water-resistant anti-microbial keyboard. Easy to carry and easy to use—Make learning the enjoyable experience it should be with Howard's 2goPCT4.

The Howard HSS38

Direct attached storage (DAS)



HSS38

Hard Drive: 300GB, 15000RPM, 16 MB Cache, 3.5in, SAS 6.0Gb/s
(Requires Active Backplane or Add-in SAS-2.0 RAID Controller)

Number of Hard Drives: 2 Hard Drives

Storage Controller 1: Does not contain Controller, requires existing server with external SAS connector in order to function

Case: 3U, 16-Bay Hot-Swap Enclosure with Dual 80-plus Gold Power Supplies and external SAS connector

Warranty: 3 Year Parts & Labor Limited Warranty with 3 year NBD On-Site Service (1 Year Hard Drive Replacement)

The HSS38 is Howard's new high-performance, direct-attached storage appliance for server applications with large storage needs. It attaches easily to any existing server containing a storage controller that supports SAS expanders using a robust SFF 8087, external SAS connector. The HSS38 features a 3U-rackmount chassis with redundant 1200W 80-Plus Gold, high efficiency (93%) power supplies. It can be bundled with a PCI-e x8 host bus adapter for systems without an available SAS port, and expanded, as needed, by cascading additional HSS38 units together. Get ready to Grow with best-in-class storage solutions from Howard—the HSS38!



IE5-228L

Processor: Intel® Xeon® E5-2603 (1.80 GHz, 4-Core, 10M Cache, 6.40 GT/s Intel® QPI)

Number of Processors: Single Processor

Memory: 4GB (4GB x 1) DDR3-1600 Unbuffered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 1TB , 6Gb/s SATA, 7200 RPM, 3.5", Seagate Enterprise Capacity (ES.3)

Number of Hard Drives: 1 Hard Drive

Riser Card: Dual Full Height PCI-e Risers (Three PCI-e x8 slots each - 2nd Riser Requires Dual Processor)



IE5-2216S

Processor: Intel® Xeon® E5-2603 (1.80 GHz, 4-Core, 10M Cache, 6.40 GT/s Intel® QPI)

Number of Processors: Single Processor

Memory: 4GB (4GB x 1) DDR3-1600 Unbuffered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 250GB Enterprise - 7200RPM - 64MB Cache, 2.5" SATA 6Gb/s Constellation.2

Number of Hard Drives: 1 Hard Drive

Riser Card: Dual Full Height PCI-e Risers (Three PCI-e x8 slots each - 2nd Riser Requires Dual Processor)



IE5-124L

Processor: Intel® Xeon® E5-2603 (1.80 GHz, 4-Core, 10M Cache, 6.40 GT/s Intel® QPI)

Number of Processors: Single Processor

Memory: 4GB (4GB x 1) DDR3-1600 Unbuffered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 1TB , 6Gb/s SATA, 7200 RPM, 3.5", Seagate Enterprise Capacity (ES.3)

Number of Hard Drives: 1 Hard Drive

Storage Controller 1: Integrated Intel® C602 Chipset, RAID 0/1/10, 2x 6Gb/s Ports and 4x 3Gb/s Ports - GPT Boot Not Supported



IE108

Processor: Intel® Xeon® Processor E3-1220V2 (8M Cache, 3.10 GHz)

Number of Processors: Single Processor

Memory: 2GB (2GB x 1) DDR3-1600 Unbuffered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 1TB , 6Gb/s SATA, 7200 RPM, 3.5", Seagate Enterprise Capacity (ES.3)

Number of Hard Drives: 1 Hard Drive

Storage Controller 1: Integrated Intel C204 Chipset with Intel ESRT II (RAID 0/1/10) and Intel Rapid Storage Technology (0/1/10/5), 6 SATA ports (2x6 Gbps, 4x3 Gbps)



Howard Server Systems

Custom servers for your every need.

Why should you buy a Howard system? Learn about our great benefits.

We offer superior product quality:

- Howard products are made and assembled here in the USA and are thoroughly tested for quality assurance
- We use high quality components from manufacturers such as Intel, Kingston, LG, Samsung, Coolermaster and Foxconn

You get a better customer service experience with Howard:

- We have 100% U.S. Based Customer Support
- No automated phone system to get to your Dedicated Account Manager
- 24/7 Tech Support for LIFE!



Budget-friendly solutions for first time server buyers and small businesses of up to 75 employees ideal for basic web, storage, email, and e-commerce applications.



Great choice for businesses of 75-400 employees perfect for processor-intense applications, Databases, Email and Messaging, Domain Controllers, and Web servers.



Affordable and innovative powerhouses for companies with 400-1000 employees excellent for any server role or heavy workloads.



SE5-428L



Processor: Intel® Xeon® E5-2603 (1.80 GHz, 4-Core, 10M Cache, 6.40 GT/s Intel® QPI)

Number of Processors: Single Processor

Memory: 16GB (16GB x 1) DDR3-1600 Registered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 1TB , 6Gb/s SATA, 7200 RPM, 3.5", Seagate Enterprise Capacity (ES.3)

Number of Hard Drives: 1 Hard Drive

Storage Controller 1: Integrated Intel ICH10R, SATA-300, 6x Internal Channel, RAID 0/1/5/10 (Default partition 100GB for Virtual Drives above 2TB)



IE408



Processor: Intel® Xeon® Processor E3-1220V2 (8M Cache, 3.10 GHz)

Number of Processors: Single Processor

Memory: 2GB (2GB x 1) DDR3-1600 Unbuffered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 1TB , 6Gb/s SATA, 7200 RPM, 3.5", Seagate Enterprise Capacity (ES.3)

Number of Hard Drives: 1 Hard Drive

Storage Controller 1: Integrated Intel C204 Chipset with Intel ESRT II (RAID 0/1/10) and Intel Rapid Storage Technology (0/1/10/5), 6 SATA ports (2x6 Gbps, 4x3 Gbps)



IE5-428L



Processor: Intel® Xeon® E5-2603 (1.80 GHz, 4-Core, 10M Cache, 6.40 GT/s Intel® QPI)

Number of Processors: Single Processor

Memory: 4GB (4GB x 1) DDR3-1600 Unbuffered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 1TB , 6Gb/s SATA, 7200 RPM, 3.5", Seagate Enterprise Capacity (ES.3)

Number of Hard Drives: 1 Hard Drive

Storage Controller 1: Integrated Intel® C602 Chipset, RAID 0/1/10, 2x 6Gb/s Ports and 4x 3Gb/s Ports - GPT Boot Not Supported



IE5-428S



Processor: Intel® Xeon® E5-2603 (1.80 GHz, 4-Core, 10M Cache, 6.40 GT/s Intel® QPI)

Number of Processors: Single Processor

Memory: 4GB (4GB x 1) DDR3-1600 Unbuffered ECC 1.35V DIMM - Single Processor Only

Hard Drive: 250GB Enterprise - 7200RPM - 64MB Cache, 2.5" SATA 6Gb/s Constellation.2

Number of Hard Drives: 1 Hard Drive

Storage Controller 1: Integrated Intel® C602 Chipset, RAID 0/1/10, 2x 6Gb/s Ports and 4x 3Gb/s Ports - GPT Boot Not Supported



As seen on **FX & FOX** hit shows:

**AMERICAN
HORROR
STORY™**

THE FOLLOWING

The Howard Cart

Present, train, educate, care

Technology Cart

Your work isn't confined to four walls, and with a Howard mobility cart, neither are you—it goes where you go! Customized to include the computer and task-specific accessories of your choice, Howard mobility carts are ideal for a variety of applications.

EDUCATION: Create non-traditional classroom environments

BUSINESS: Mobilize training sessions and deliver imaginative business presentations

LEGAL/COURT: Ensure immediate access to evidence and pertinent case materials

MEDICAL: Facilitate charting, documentation and medication administration

Howard carts are designed to focus on flexibility, organization, and security, from convenient ergonomic features and interchangeable drawer systems to work surface security that helps prevent theft and tampering. Howard mobile carts are manufactured in compliance with the highest standards for extreme durability and maximum reliability, and shipped "ready-to-roll." Just open the box and roll out the cart; install your computer, charge the battery, and your cart is ready to use.

Backed by Howard Medical's top-rated comprehensive warranty and world-class support team, you have every reason to expect optimal cart performance now and for many years to come.

- Steer Assist Technology (optional)
- Large 2 sq. ft. antimicrobial work surface (20.6"W x 16.2"L)
- 270° wrap-around steering handle
- One-touch height adjustment (sitting 32.75" to standing 47.50")
- Cart foot print 17.25"W x 20"D
- (4) 5" premium casters with 2 locking casters, reducing the force needed to move the cart to less than 2 lbs
- Open wheel base allows for normal-stride walking pattern
- Negative tilt keyboard (optional)
- Cable management box with easy access panel to manage and house unsightly cables
- Lithium Iron Phosphate battery
- Antimicrobial surfaces
- Accessory pack
- Translucent worksurface cover
- Multiple accessories (optional)
- Lighted keyboard & work surface (optional)
- External antenna (optional)
- FIPS scanner approved mount
- 6 AC outlets
- Supports all tier 1 technology
- Open architecture promotes easy integration of the technology brand of your choice
- 3-year standard warranty
- Optional 5-year warranty
- 24 hour customer support

FOR SALES INFORMATION CONTACT:

