Fast-forward with 3rd Generation processors

Fast-forward your business with Howard's newest desktop computer, the Q77. Powered by Intel's 3rd Generation Core™ vPro™ processors, the most advanced available, the Q77 delivers a faster, smoother, and richer PC and visual experience. It features elements essential to high performance, such as the latest AMT 8.0, SATA 6.0, integrated next generation HD graphics from Intel, USB 3.0 and dual-LAN for improved Ethernet throughput. The Q77 also includes Intel® Identity Protection Technology and Anti-Theft Technology—vital hardware-based security for safeguarding all your business and personal information. Complete with your choice of Microsoft® Windows® 7 Professional or Ultimate, the Q77 offers top-of-the-line performance at an amazingly low price. Accelerate your business with the new Q77 from Howard.
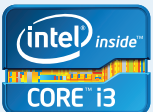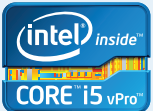
Howard Technology Solutions recommends genuine Microsoft® Windows® 7 Professional

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**.*

Intel, the Intel logo, Intel inside, Intel Core i7, i5 and i3 are trademarks of Intel Corporation in the U.S. and other countries.

Feature	Description
Intel® Socket 1155	Supports Intel® Core™ i7, Core™ i5, and Core™ i3, Intel® vPro™, Turbo Boost Technology, and up to 8 Cores
High-Speed Connectivity	High speed connection technology for lightning-fast performance all the time— • Dual Gigabit NICs • USB SuperSpeed 3.0 • e-SATA hard drive • SATA-600 • Firewire
Solid State Drives	Increase performance and significantly reduce boot times by upgrading your hard drive to a SSD.
Intel® RAID	Intel® Matrix Storage Technology Supports RAID 0, 1, 5, 10
Supports Dual Monitors	Maximize productivity and increase efficiency with dual monitors; Use multiple programs simultaneously and share data between applications more easily.
Long Life Availability	The Q77 provides a stable computing solution with an extended life cycle, lowering total cost of ownership, making it ideal for IT Administrators who want to standardize their hard drive imaging deployments on long-life, image-stable hardware.

HOWARD™
TECHNOLOGY SOLUTIONS

*Experience the **Howard advantage**.*

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Feature	Specifications
Chipset	Intel® Q77 Express chipset
Supported Operating System	Microsoft® Windows® 7 Professional/Ultimate
Supported Processor Families	Supports Intel® Core™ i7, i5, and i3 vPro™ processor series in the LGA 1155 package
System Memory	Up to 32GB of DDR3 (4 slots, DIMM)
Video	Display Port, DIV-D, DVI-I
Audio	Intel® High Definition Audio
Network	Dual Gigabit Intel® (10/100/1000 Mbits/sec) LAN
Internal Ports	SATA=5 Serial ATA ports: 2 internal connectors (6.0 Gb/s), 3 internal connectors (3.0 Gb/s) 1 PCI Express* 3.0 x16 bus add-in card connectors; 1 PCI Express* 2.0 x4 connector (open-ended with retaining clip); 1 PCI Express* 2.0 x1 connector; 1 PCI* conventional bus connector; 1 PCI Express* full length mini connector (support mSATA)
External Ports (Rear Panel)	4 USB 3.0 ports (2 external, 2 via internal header) 8 USB 2.0 ports (4 external, with 2 supporting high-power charging, 4 via internal headers) 1 eSATA (3.0 Gb/s), 2 IEEE 1394a ports (1 external, 1 internal header)

Chassis	Specifications
Microtower • Dimensions • Drive Bays • Front Panel • PSU	16.5"(H) x 14.1"(W) x 7"(L) 3.5" 2 Internal & 2 External; 2 External 5.25" USB=2, Audio=1, Line Out/1 Mic 300W (110 to 240W AC)
Low Profile • Dimensions • Drive Bays • Front Panel • PSU	3.94"(H) x 12.99"(W) x 16.42"(D) 3.5" 1 Internal & 2 External; 1 External 5.25" USB=2, Audio=1, Line Out/1 Mic 250W (110 to 240W AC)

Q: What is Dual-Channel Memory?

A: Dual-channel mode is enabled when identical matched memory modules are installed in each of the two memory channels, allowing for higher throughput, and reduced latency.

Q: What is RAID?

A: RAID (Redundant Array of Independent Disks) is a technology that allows a system to utilize two or more hard drive disks as a single storage unit in order to increase performance, reliability, and/or contiguous storage space.

Q: Does the naming convention used by Intel® for their i3, i5, and i7 processors indicate performance level?

A: Intel® processor numbers are not a measure of performance; they simply differentiate features within each processor family.

Q: Whom should I contact for support?

A: Call Howard for world-class support and service if there are any questions about the desktop.
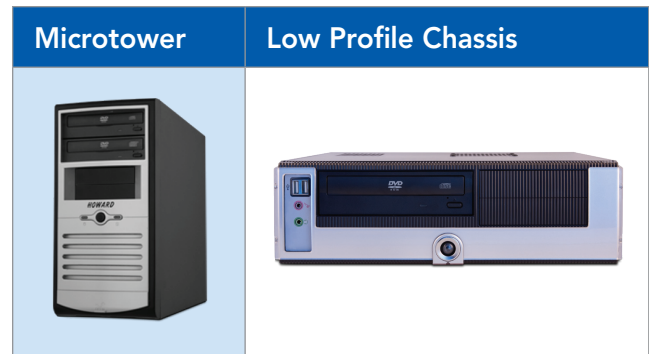Customer support is available:
Online at http://www.howardcomputers.com/support,
By phone at 1.888.323.3151,
Via email at tech@howardcomputers.com, or
Conventional mail at Howard Technology Solutions, 36 Howard Drive, Ellisville, Mississippi 39437.

Microtower	Low Profile Chassis

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!

• Dual monitors
• Wireless keyboard and mouse
• On-site service

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 today for more information.

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TECHNOLOGY SOLUTIONS

Experience the **Howard advantage.**