

Affordable, up-to-the-minute technology

The 1681, Howard's newest mid-sized, value-line notebook, makes up-to-the-minute technology affordable! The 1681 is powered by the latest Intel Core i3, i5, and i7 processors for high-speed performance on-the-go. It's packed with essential features for high-quality video playback, like business class Intel GMA HD graphics, and a 15.6" widescreen graphic-enhancing LCD; it has Bluetooth capability, a 1.3 MP webcam, full-size keyboard, and numerous interfaces, including HDMI and an ExpressCard slot for connecting to your favorite accessories. Faster processing speeds and affordable pricing make Howard's 1681 a tremendous value!



Howard Technology Solutions recommends genuine Microsoft® Windows® 7.

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

Feature	Benefits
Microsoft® Certified	This highly tested system is optimized for Microsoft's Windows® 7.
Full-sized Keyboard	Full-sized keyboard with number pad for easy typing.
Webcam	The included 1.3 MegaPixel Webcam can be used for numerous multimedia applications.
Wireless	High-speed connectivity with 802.11n Wireless Technology
Play & Burn CDs/DVDs	The 1681 comes with a DVD-Rewritable drive for burning your desired media.



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Feature	Specification
Chipset	Intel® HM55
Supported Operating Systems	Microsoft® Windows® XP SP3, Windows Vista® SP1, or Windows® 7
Supported Processor Families	Intel® Core™ i3, i5, and i7 Mobile processors
System Memory	Up to 8GB of 1333/1066 MHz DDR3 (2 slots)
Video	Intel® GMA HD Graphics Shared Video memory
Audio	Integrated 2-channel High-definition audio
Network	Integrated Realtek 10/100/1000 LAN Integrated Intel® PRO/Wireless 5100AGN Wireless Adapter; Upgrade to Intel® PRO/Wireless 6000 Series Wireless Adapter; Internal Bluetooth Adapter included
Optical Drives	Internal DVDRW drive
Internal Ports	Mini-PCI Express=2
External Ports (Rear Panel)	Serial=0, USB=3, Audio= Mic In, Headphone Out, LAN=1 Realtek 10/100/1000, eSATA=0, Video=2, VGA out, HDMI out, IEEE 1394=0 4-in-1 Card Reader, Express Card=1 34mm, Integrated 1.3 MP webcam, Kensington Lock Hole
Battery	6 Cell, 4400mAh (5.0 Hour Typical Battery Life) 9 Cell, 6600mAh (7.0 Hour Typical Battery Life)
Power Supply	Up to 65W, 19V
Dimensions	1.37"(H) x 9.72"(W) x 14.72"(L) (inches)
Weight	5.5 lbs
Certifications	Windows® 7 Premium

Q: What types of media does the 4-in-1 Card Reader support?

A: The Card Reader supports XD, Memory Stick, Multimedia Card (MMC), and Secure Digital (SD).

Q: What is the Average Battery Life for the 1681?

A: The 6-cell battery lasts just under 5 hours with normal usage. The 9-cell battery will increase normal usage up to 7 hours.

Q: What does the "DVDRW" suggest when it relates to the internal optical drive on the 1681?

A: Basically, this means that the drive is capable of burning or recording most formats of both CDs and DVDs.

Q: What is an ExpressCard slot?

A: ExpressCard is a new hardware standard replacing PC cards (also known as PCMCIA, or Card Bus cards). ExpressCards allow the support of PCI Express and USB 2.0 speeds through the ExpressCard slot. The cards are Hot-pluggable, similar to USB 2.0, and come in either 34 mm or 54 mm sizes.

Q: How do I enable Bluetooth on the 1681?

A: Bluetooth is enabled by selecting the wireless/Bluetooth button on the top right of the notebook, next to the power button. This button allows you to cycle through the following options: wireless off/Bluetooth off, wireless on/Bluetooth off, wireless off/Bluetooth on, and wireless on/Bluetooth on. The "on" status of each will be indicated by a green (wireless) or blue (Bluetooth) LED on the front of the notebook for each.

Q: Whom should I contact for support?

A: Call Howard Technology Solutions for support and service if there are any questions about the notebook. Customer support is available:
Online at <http://www.howardcomputers.com/support>,
Via email at tech@howardcomputers.com,
By phone at 1.888.323.3151, or
Through 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!

- USB port replicator
- On-site service
- Smart card reader
- DVD-RW with DVD software
- Jazz/zip drives
- External USB keyboard and mouse

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.