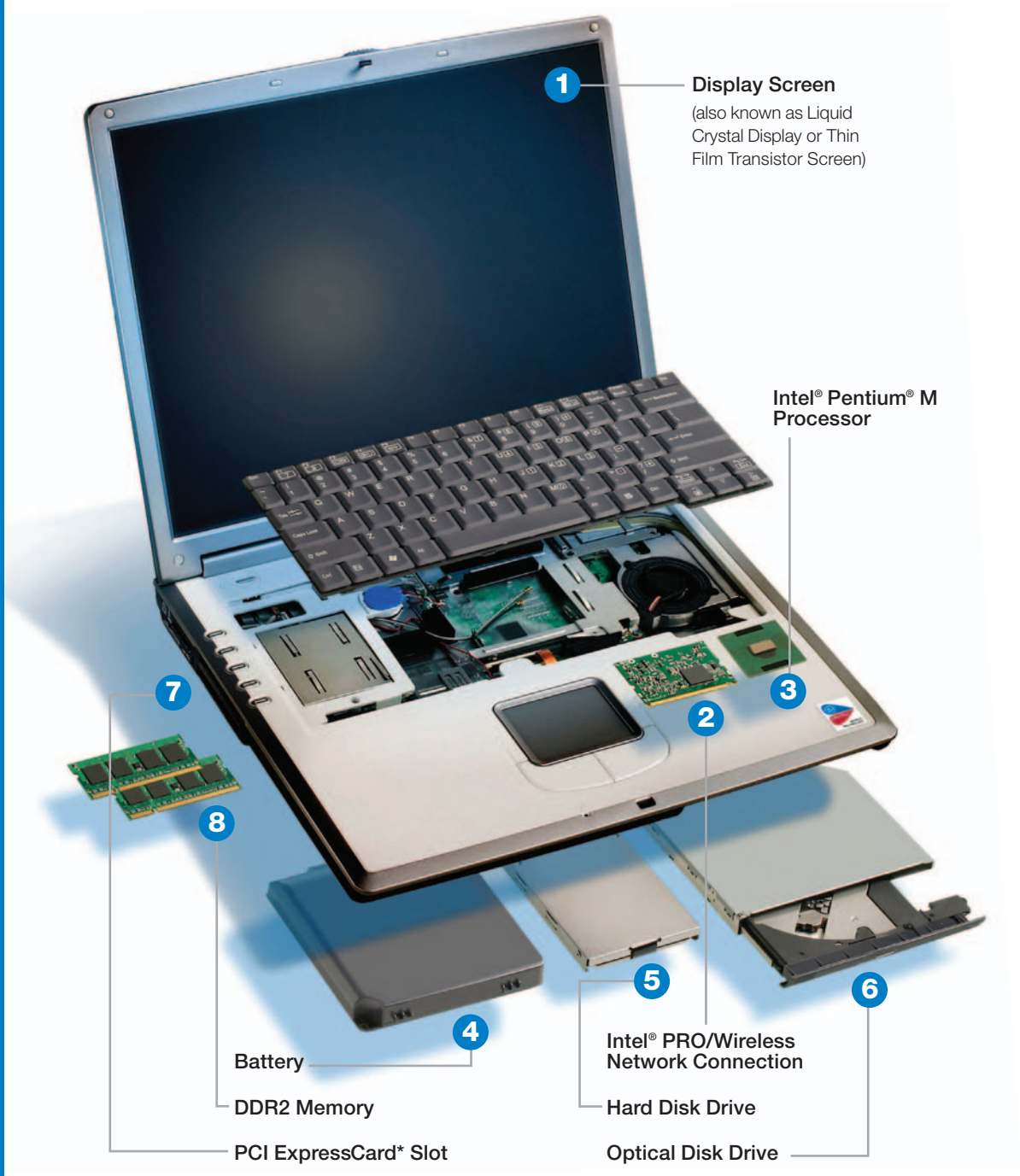
“Build Your Own Notebook”

Shopping for a notebook? With this guide, we’ll help you consider important aspects about key notebook components: the processor, display, hard disk drive, optical drive, memory and wireless connectivity. By looking for features that benefit you most and how you will use your notebook, you are more likely to end up with a solution that meets your needs.



Today's most advanced notebooks use Intel® Centrino™ mobile technology that combines the Intel® Pentium® M processor, Mobile Intel® 915 Express chipset family or Intel® 855 chipset family, and Intel® PRO/Wireless Network Connection family. It features fully integrated wireless LAN capability* and delivers excellent mobile performance while enabling great battery life in lighter, easier-to-carry notebook. Choose Intel Centrino mobile technology based notebooks for your most demanding applications – be it for business tasks, personal use, entertainment, or used as a high-performance, mobile workstation for developers and gamers.

Processor

Choose the processor that keeps you going at your most demanding tasks with technologies that enhance your computing experience.

The Intel® Pentium® M processor provides performance for processing-intensive applications, gaming, and entertainment. Choose a processor with a 400 MHz system bus or a 533 MHz system bus for faster and higher system performance. These processors, with suspend and power-saving technologies, help increase battery life, enabling you to work and play longer. Also, processors with Intel SpeedStep® technology better match processor performance to the application's demand.

The Intel® Celeron® M processor offers notebook value and performance for typical home and business computing tasks, such as document creation, e-mail and surfing the Web.

Display

The display is the largest consumer of power in a notebook – look for technologies that help conserve battery life, such as Intel® Display Power Saving Technology (DPST).

Display screens usually come in 12.1", 14.1", 15", 15.4" and 17" sizes. Smaller or standard displays are good for people always on the go, while wide screens are usually better for enjoying rich gaming experiences and digital entertainment. More pixels in the screen generally let you see more detail, so, choose the display resolution for your most graphically demanding uses.

Hard Disk Drive

Hard disk drive capacity usually ranges from 20 GB to as high as 100 GB and can increase with advances in HDD technology. Smaller hard disk drives are good for storing typical business and personal documents and e-mail. Bigger drives handle music files, pictures, and video files that require much more space. The speed of the drive – 5400 or 7200 RPM – is important, too. Programs that frequently access the drive run better on a faster drive. Select a hard disk drive interface to match your notebook use: ATA is economical and good for small files; Serial ATA works faster and is a benefit for users that often use larger files, such as digital pictures, animation and video.

Optical Disk Drive

DVDs have 5 times the capacity of CDs. If you only want to play music CDs and access data CDs, a CD-R (reader) drive is an economical choice. DVD drives play movies and music or data CDs. Combo drives – DVD/CD-RW (reader/writer) and DVD-R (recorder)/CD-RW – let you read and burn CDs and DVDs, personalizing your music, creating DVDs for work and home, and archiving large files, such as home movies.

Memory

Faster and higher-capacity memory enhances computer performance, especially for graphic-intensive applications and large files. DDR2 memory is faster than standard DDR. Dual-channel technology enhances performance even further. Combining the fastest, dual-channel memory and an Intel® Pentium® M processor with a 533 MHz system bus gives you outstanding performance for most applications.

Wireless Connectivity

Wireless networks use radio waves instead of cables to transmit and receive information. Having the integrated Intel® PRO/Wireless Network Connection solution keeps your PC card slots free for other uses. It offers products based on 802.11a, 802.11b, and 802.11g wireless network standards for great flexibility in accessing wireless networks. Integrated solutions also can offer larger, more enhanced antennas for improved connections to wireless networks.

PCMCIA (PC card) and ExpressCard*

The PC card slots expand notebook functionality. The ExpressCard* connection provides additional high-performance functionality – ask your local system integrator when these ExpressCard products become available.

	Model 1		Model 2	
Model Name				
LCD Size				
Upgrade Options				
Processor				
Memory				
HDD				
ODD				
Warranty Services				
Additional Battery				
WLAN Routers				
PCI ExpressCards*				
Other Accessories				
Other Services				

Newest-generation Intel® Centrino™ Mobile Technology

Get More from Mobility

Looking for a greater performance edge for your new notebook? Consider the superior speed, audio/video clarity and expanded connectivity of newest-generation Intel® Centrino™ mobile technology based notebooks.

Ask your system builder to include any or all of these exciting features in your notebook:

More performance

Experience…	So you can…	Using these powerful new technologies…
Outstanding power and speed to make you more competitive at work and play	• Speed through your work, going back and forth between multiple open programs, while the latest security software runs in the background • Capture, edit and play back video footage with ease • Have the extra power to run tomorrow's even more demanding applications: media-rich presentations, graphics-intensive 3D games, playing multiple audio and video files simultaneously, and much more • Stay productive when you're on the road with the right balance of notebook performance and battery life	Intel Pentium® M processor with 533 MHz front side bus
Up to 33% faster transfer rate between processor and memory than previous generations for enhanced performance		Dual Channel DDR2 533 MHz memory support[1]
60% improvement in peak bandwidth from DDR1-333 to DDR2-533 – up to 2GB maximum platform memory		
Up to 2 times more device throughput with first major bus architecture change in over a decade, turning your notebook data path from a one-lane road to a superhighway		PCI Express* Bus Architecture[1]

More multimedia enjoyment

Experience…	So you can…	Using these powerful new technologies…
Smooth, crisp integrated graphics that support key 3D gaming features, with lower power requirements than typical discrete graphics solutions	• Enjoy DVDs with crisp graphics and surround-sound audio wherever you go – or, line them through your home theater system • Add multimedia punch to business presentations with polished visuals and narration to match your professional image	Integrated Intel Graphics Media Accelerator 900
'Home theater' quality audio that supports DTS, THX, and all Dolby technologies. Multi-streaming enables separate, independent audio streams to different devices/users		Intel High Definition Audio[1]
Up to 150 MB/sec hard disk transfer rate for capturing digital memories, storing movies, TV programs, and personal video productions	• Experience 3D gaming the way it was meant to be played: with smooth, responsive graphics and theater-quality surround sound • Watch a video using headphones while your friend listens to music through a separate audio jack, turning your notebook into a multimedia powerhouse	Serial ATA (SATA) storage technology for hard disk drives[1]

More wireless capability[2]

Experience…	So you can…	Using these powerful new technologies…
More flexible connectivity to most available industry standards-based wireless LANs (802.11a/b/g), with improved integrated antenna that maximizes weak signals	• Connect to more types of local area networks (LANs) wherever you go, so you can be online and available to your co-workers, friends and family in more places • Automatically scan for available networks – even in places where you're not sure there is one – and then easily establish a connection • Store the names and settings for all the LANs you commonly access, so you can easily re-connect • Stay connected even in situations when the LAN signal is weak or distant • Troubleshoot connection issues with Intel's latest generation of management software	Intel PRO/Wireless 2915ABG Network Connection
Easier management of wireless LANs, automatic scanning for available networks, the ability to easily save and recall most-used connectivity settings and simplified security[3]		Intel PRO Wireless software v.9.0[4]

1. Some features are optional. Check with PC manufacturer regarding availability.
2. Wireless connectivity and some features may require you to purchase additional software, services or external hardware. Availability of public wireless LAN access points is limited, wireless functionality may vary by country and some hotspots may not support Linux-based Intel Centrino mobile technology systems. System performance measured by MobileMark* 2002. System performance, battery life, wireless performance and functionality will vary depending on your specific operating system, hardware and software configurations. See http://www.intel.com/products/centrino/more_info for more information.
3. Some security solutions may not be supported by your PC's operating system and may require additional software and/or certain hardware as well as wireless LAN infrastructure support. Check with your PC manufacturer for details.
4. Intel® PROSet/Wireless software version 9 supports only Intel Centrino mobile technology based notebooks with Intel® PRO/Wireless 2200BG Network Connection and Intel® PRO/Wireless 2915ABG Network Connection and may not be supported by your PC's operating system and/or by your PC manufacturer. Some features may require specific hardware configurations. Check with your PC manufacturer for details.

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