



Aspire 5830TG Specifications (v5-1-1)	
Operating system ¹	Genuine Windows® 7 Home Basic 64-bit ² Genuine Windows® 7 Home Premium 64-bit ²
CPU and chipset ¹	<p>Intel® Core™ i7-2620M processor (4 MB L3 cache, 2.70 GHz with Turbo Boost up to 3.40 GHz, DDR3 1333 MHz, 35 W), supporting Intel® 64 architecture, Intel® Smart Cache</p> <p>Intel® Core™ i5-2410M/i5-2520M/i5-2540M processor (3 MB L3 cache, 2.30/2.50/2.60 GHz with Turbo Boost up to 2.90/3.20/3.30 GHz, DDR3 1333 MHz, 35 W), supporting Intel® 64 architecture, Intel® Smart Cache</p> <p>Intel® Core™ i3-2310M/i3-2330M processor (3 MB L3 cache, 2.10/2.20 GHz, DDR3 1333 MHz, 35 W), supporting Intel® 64 architecture, Intel® Smart Cache</p> <p>Mobile Intel® HM65 Express Chipset</p>
System memory ^{1, 3, 4}	<p>Dual-channel DDR3 SDRAM support</p> <ul style="list-style-type: none"> Up to 4 GB of DDR3 system memory, upgradable to 8 GB using two soDIMM modules⁵
Display	<p>15.6" HD 1366 x 768 resolution, high-brightness (200-nit) Acer CineCrystal™ LED-backlit TFT LCD</p> <p>Mercury-free, environment-friendly</p> <p>Super-slim design</p> <p>16:9 aspect ratio</p>
Graphics	<p>NVIDIA® GeForce® GT 540M with NVIDIA® Optimus™ technology, up to 4095³ MB of TurboCache™ (2048 MB of dedicated DDR3 VRAM, up to 2047³ MB of shared system memory), supporting NVIDIA® CUDA™, PhysX™, PureVideo® HD technology, OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX® 11</p> <p>NVIDIA® GeForce® GT 540M with NVIDIA® Optimus™ technology, up to 4095³ MB of TurboCache™ (1024 MB of dedicated DDR3 VRAM, up to 3071³ MB of shared system memory), supporting NVIDIA® CUDA™, PhysX™, PureVideo® HD technology, OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX® 11</p> <p>Dual independent display support</p> <p>16.7 million colors</p> <p>External resolution / refresh rates:⁶</p> <ul style="list-style-type: none"> VGA port up to 2048 x 1536: 75 Hz HDMI® port up to 1920 x 1080: 60 Hz <p>MPEG-2/DVD decoding</p>

Aspire 5830TG Specifications (v5-1-1)	
	<p>WMV9 (VC-1) and H.264 (AVC) decoding</p> <p>HDMI[®] (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support</p>
Audio	<p>Optimized Dolby[®] Home Theater[®] v4 audio enhancement, featuring Audio Optimizer, Audio Regulator, Volume Leveler, Volume Maximizer, Intelligent EQ, Dialogue Enhancer, Surround Virtualizer for Headphones, Surround Virtualizer for Built-in Speakers, and Dolby[®] Digital Output technologies⁷</p> <p>Two built-in Acer 3DSonic stereo speakers</p> <p>High-definition audio support</p> <p>S/PDIF (Sony/Philips Digital Interface)⁸ support for digital speakers</p> <p>MS-Sound compatible</p> <p>Built-in digital microphone</p>
Storage	<p>Hard disk drive:</p> <ul style="list-style-type: none"> 250/320/500/640/750 GB or larger^{1, 9} <p>Solid state drive</p> <ul style="list-style-type: none"> 80/120/160 GB or larger^{1, 9} <p>Multi-in-1 card reader, supporting:</p> <ul style="list-style-type: none"> Secure Digital[™] (SD) Card, SD Extended Capacity (SDXC[™]) Card, MultiMediaCard[™] (MMC), Memory Stick[™] (MS), Memory Stick PRO[™] (MS PRO), xD-Picture Card[™] (xD)
Optical media drive	<p>8X DVD-Super Multi double-layer drive:</p> <ul style="list-style-type: none"> Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 6X DVD-ROM DL, 4X DVD-R DL, 4X DVD+R DL, 6X DVD-RW, 6X DVD+RW, 5X DVD-RAM Write: 24X CD-R, 16X CD-RW, 8X DVD-R, 8X DVD+R, 4X DVD-R DL, 4X DVD+R DL, 6X DVD-RW, 8X DVD+RW, 5X DVD-RAM
Webcam	<p>Acer Video Conference,¹ featuring:</p> <ul style="list-style-type: none"> Acer Crystal Eye webcam with 1280 x 1024 resolution Acer Video Conference Manager software, featuring Video Quality Enhancement (VQE) technology, supporting 640 x 480 resolution online video calls¹⁰

Aspire 5830TG Specifications (v5-1-1)	
Wireless and networking	<p>WLAN^{1, 11, 12}</p> <ul style="list-style-type: none"> • Intel® Centrino® Advanced-N 6205, 802.11a/b/g/n Wi-Fi CERTIFIED™ with Acer Nplify™, featuring MIMO technology • Acer InviLink™ Nplify™ 802.11b/g/n Wi-Fi CERTIFIED™ • Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED™ • Supporting Acer SignalUp™ wireless technology <p>WPAN¹:</p> <ul style="list-style-type: none"> • Bluetooth® 3.0+HS • Bluetooth® 2.1+EDR <p>LAN: Gigabit Ethernet, Wake-on-LAN ready</p>
Privacy control	<p>BIOS user, supervisor, HDD passwords</p> <p>Kensington lock slot</p>
Dimensions and weight¹	<p>378 (W) x 249 (D) x 25.4/31.3 (H) mm (14.88 x 9.80 x 1/1.23 inches) with embedded 6-cell battery pack</p> <p>2.49 kg (5.60 lbs.)¹³ with embedded 6-cell battery</p>
Power adapter and battery¹	<p>ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes</p> <p>Power adapter</p> <p>3-pin 90 W AC adapter:</p> <ul style="list-style-type: none"> • 126 (W) x 51 (D) x 31 (H) mm (4.96 x 2 x 1.22 inches) • 332 g (0.73 lbs.)¹³ with 180 cm DC cable <p>Battery</p> <p>Acer PowerSmart long-life battery, supporting up to 1,000 charge cycles¹⁴</p> <p>66.0 Wh 6000 mAh 6-cell Li-ion battery pack</p> <p>Battery life: Up to 9.0 hours¹⁴</p> <p>ENERGY STAR®</p>

Aspire 5830TG Specifications (v5-1-1)	
Input and control¹	<p>Keyboard</p> <p>103-/104-/107-key Acer FineTip keyboard with independent standard numeric keypad, international language support</p> <p>Touchpad</p> <p>Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip</p> <p>Media keys</p> <p>Media control keys (printed on keyboard): play/pause, stop, previous, next, volume up, volume down</p> <p>Control key</p> <p>Acer PowerSmart key</p>
Input and output	<p>Multi-in-1 card reader (SD™, MMC, MS, MS PRO, xD)</p> <p>One USB 3.0 port featuring power-off USB charging¹</p> <p>Three USB 2.0 ports</p> <p>HDMI® port with HDCP support</p> <p>External display (VGA) port</p> <p>Headphone/speaker jack with S/PDIF support</p> <p>Microphone-in jack</p> <p>Ethernet (RJ-45) port</p> <p>DC-in jack for AC adapter</p>
Software¹⁵	<p>Productivity</p> <ul style="list-style-type: none"> • Acer Backup Manager¹ • Acer eRecovery Management • Acer PowerSmart Manager¹ • Adobe® Flash® Player 10.1 • Adobe® Reader® 9.1 • AUPEO! (US only) • Barnes & Noble Desktop Reader (US only) • Bing™ Bar • eSobi™ • Kobo™ (Canada only) • Microsoft® Office 2010 preloaded (purchase a product key to activate)¹⁶ • Microsoft® Office Starter 2010¹⁷ • Microsoft® Office Personal 2010(Japan only) • New York Times Reader (US only) • Norton™ Online Backup

Aspire 5830TG Specifications (v5-1-1)	
	<ul style="list-style-type: none"> • NOOK for PC (US only) Security <ul style="list-style-type: none"> • McAfee® Internet Security Suite Trial¹⁸ • MyWinLocker®¹ (Except China, Hong Kong) Multimedia <ul style="list-style-type: none"> • Acer Clear.fi • NTI Media Maker™ Gaming <ul style="list-style-type: none"> • Oberon GameZone¹ (except US, Canada, Hong Kong, Korea) • WildTangent®¹ (US, Canada only) Communication and ISP <ul style="list-style-type: none"> • Acer Crystal Eye • Acer Video Conference Manager¹ • Microsoft® Silverlight™ • Skype™ • Windows Live™ Essentials 2011 Web links and utilities <ul style="list-style-type: none"> • Acer Accessory Store¹ (Belgium, France, Germany, Italy, Netherlands, Spain, Sweden, UK only) • Acer Identity Card • Acer Registration • Acer Updater • eBay® shortcut 2009¹ (Canada, France, Germany, Italy, Mexico, Spain, UK, US only) • Netflix shortcut¹ (US, Canada only)
Optional items	1/2/4 GB DDR3 soDIMM module 250/320/500/640/750 GB hard disk drive 3-pin 90 W AC adapter
Warranty	One-year International Travelers Warranty (ITW)
<p>Windows®. Life without Walls™. Acer recommends Windows 7.</p> <ol style="list-style-type: none"> 1. Specifications vary depending on model. 2. 64-bit software is required to enjoy the advantages of 64-bit processing. 3. Shared system memory may be allocated to support graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by any memory used by the graphics solution and resources required by the operating environment. Total available graphics 	

Aspire 5830TG Specifications (v5-1-1)

memory comprises dedicated video memory, system memory, and shared system memory. This figure will vary depending on system memory, installed drivers, BIOS settings and other factors

4. This system is bundled with DDR3 1066 MHz memory; however, memory speed may vary depending on CPU/chipset support.
5. A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory.
6. Resolution/refresh rates depend on display and color/depth settings.
7. Dolby® is a registered trademark of Dolby® Laboratories. Dolby® Home Theater® is a trademark of Dolby® Laboratories.
8. Supports 7.1-channel surround sound and 2-channel stereo output (multiple streaming).
9. 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer eRecovery Management utilizes up to 10 GB of the stated hard disk capacity as dedicated backup space.
10. Two VQE-enabled Acer notebooks with dual-core processors are required to enjoy the exclusive benefits and added performance of VQE.
11. Actual throughput may vary depending on network conditions and environmental factors such as network traffic or overhead, building construction, and access point settings.
12. Acer Nplify™, a high-throughput wireless solution, delivers superior performance and reliable connections while enabling emerging voice, video and data applications. Wi-Fi CERTIFIED™, it supports Acer SignalUp™ wireless technology and is compliant with 802.11a/b/g/n and 802.11b/g standards.
13. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
14. The listed battery life is based on MobileMark 2007® productivity mode testing with wireless on. Details of MobileMark2007® testing are available at www.bapco.com. Battery life rating is for comparison purposes only. Actual battery life varies by model, configuration, applications, power management settings, operating conditions, and utilized features. A battery's maximum capacity decreases with time and use.
15. Bundled software may vary depending on hardware configuration, OS and regional availability.
16. Purchase an Office 2010 product key to activate one of the following Office 2010 suites preloaded on this PC: Office Home and Student 2010, Office Home and Business 2010, Office Professional 2010.
17. Includes limited-functionality Microsoft® Word and Excel with advertising; no PowerPoint or Outlook. Purchase Office 2010 to activate full-featured Office.
18. Trial periods vary depending on the geographic region and specifications: 365-day trial for China, Taiwan, Hong Kong and Singapore (Simplified Chinese and Traditional Chinese OS models); 60-day trial for other regions.

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

Aspire 5830TG Specifications (v5-1-1)

As a phenomenon known to thin-film transistors (TFTs), liquid crystal displays (LCDs) commonly exhibit a small number of discoloration dots, as so-called "non-conforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect, and as such is not covered by Acer's warranty.

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About Acer

Since its founding in 1976, Acer has achieved the goal of breaking the barriers between people and technology. Globally, Acer ranks No. 2 for total PCs and notebooks. A profitable and sustainable Channel Business Model is instrumental to the company's continuing growth, while its multi-brand approach effectively integrates Acer, Gateway, Packard Bell, and eMachines brands in worldwide markets. Acer strives to design environmentally friendly products and establish a green supply chain through collaboration with suppliers. Acer is proud to be a Worldwide Partner of the Olympic Movement, including the Vancouver 2010 Olympic Winter and London 2012 Olympic Games. The Acer Group employs 7,000 people worldwide. 2009 revenues reached US\$17.9 billion. See www.acer-group.com for more information.



Aspire 5830TG Specifications (v5-1-1)

