

Lenovo® B470 (4315) - Integrated (Windows 7) - web only models

Personal Systems Reference (PSREF)

Type-model	Processor	Max turbo GHz	Memory	Widescreen display	CCFL or LED	Camera	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	Fingerprint reader	Bluetooth	Battery	Win7 preload
4315-24U	i3-2310M	2.10	None	2GBx2 14.0" HD	LED	0.3M	Intel HD	500GB ⁸	DVD±RW	Intel 1000	Black	Fingerprint	BT2.1	6-cell	Prem 64
4315-25U	B800	1.50	None	4GBx1 14.0" HD	LED	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	Fingerprint		6-cell	Prem 64
4315-26U	i3-2330M	2.20	None	4GBx1 14.0" HD	LED	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	Fingerprint		6-cell	Prem 64

- 14.0" widescreen, glossy display with LED backlight
- Integrated 0.3 megapixel camera
- Lenovo Rescue System provides OneKey™ recovery and OneKey Antivirus without booting into Windows
- Fingerprint reader for easy and secure login
- BioExcess provides a convenient way to quickly encrypt or decrypt files, switch accounts, and manage passwords
- USB Port Locker prevents unauthorized access by requiring fingerprint scan to unlock
- This system is Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Widescreen flexibility; two-spindle Intel® Celeron® B800 processor (dual-core, 1.50GHz, 2MB cache) , DDR3 memory controller (up to 1333MHz) Intel Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB cache) , DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-2330M processor (dual-core, 2.20GHz, 3MB cache) , DDR3 memory controller (up to 1333MHz), HT technology	Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Lenovo OneKey Recovery • Lenovo ReadyComm • McAfee® VirusScan® Plus (60 days of virus definitions) • Windows Live Essentials • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW) • Lenovo Security Suite • USB Port Locker • BioExcess
Memory	8GB max ⁷ ; PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in 500GB (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high	
Widescreen display Camera	14.0" (355.6mm) HD (WXGA 1366x768) TFT color, VibrantView (glossy); LED backlight , 200 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus, LED indicator	
Graphics	Intel HD Graphics in processor, uses system memory, external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard Touch controls Light sensor Touch pad	Full-size keyboard, 6-row, recovery key None None Two-button touch pad with scroll feature, multi-touch	
Dimensions ³ Weight ² Case color Case material	(WxDxH): 13.4" x 9.2" x 1.3"; 340mm x 234.6mm x 33.6mm with optical drive and battery: 6-cell: 4.85 lb (2.2 kg) Black top, black bottom Top and palm rest: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic Bottom: Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell Up to 6 hr	
Chipset ExpressCard/34 Multicard reader	Mobile Intel HM65 Express Chipset None 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity Card, xD-Picture Card™)	
Ports	Three USB 2.0 and one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner PCIe Mini Card	None Two PCIe Mini Card slots	
Intel 1000 11b/g/n Bluetooth™ Modem Ethernet Audio support	Some: 11b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 Some: 11b/g/n wireless ⁴ , PCIe Mini Card adapter, Broadcom® or Atheros® chip Some: Bluetooth 2.1 wireless + EDR, USB 2.0 interface None Gigabit ethernet, RealTek® RTL8111E, PCIe x1 High Definition (HD) Audio, RealTek ALC272 codec / stereo speakers (1.5 watt x 2) / one internal analog microphone, microphone input jack (3.5 mm), headphone jack (stereo, 3.5 mm)	
Security Fingerprint reader	Power-on password, hard disk password, administrator password, security lockhole Fingerprint reader on palm rest, swipe sensor	
		Integrated models: 65-watt AC adapter Wireless on/off switch EPEAT™ Silver rating ENERGY STAR® qualified RoHS-compliant Limited Warranty¹² ⇨ 1-year warranty*: * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ Mail In repair service ⇨ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none"> • 1-year Lenovo Onsite Repair¹³ 78Y1532 • 1-year Onsite with accidental damage protection 78Y1533 • 2-year Lenovo Onsite Repair¹³ 78Y1536 • 3-year Lenovo Depot Repair 78Y1538 ⇨ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686

See footnotes for important warranty information

US models announced December 21, 2011; previous models on June 22, 2011

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Lenovo® B470 (4315) - NVIDIA (Windows 7) - web only models

Personal Systems Reference (PSREF)

Type-model	Pro-processor	GHz	Max turbo (GHz)	Memory	Widescreen display	CCFL or LED	Cam-era	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	Fingerprint reader	Blue-tooth	Battery	Win7 preload
4315-23U	i5-2410M	2.30	2.90	2GBx2	14.0" HD	LED	0.3M	GF 410M	500GB ⁸	DVD±RW	Intel 1000	Black	Fingerprint	BT2.1	6-cell	Prem 64

- **14.0" widescreen, glossy display with LED backlight**
- **Integrated 0.3 megapixel camera**
- **Lenovo Rescue System provides OneKey™ recovery and OneKey Antivirus without booting into Windows**
- **Fingerprint reader for easy and secure login**
- **BioExcess provides a convenient way to quickly encrypt or decrypt files, switch accounts, and manage passwords**
- **USB Port Locker prevents unauthorized access by requiring fingerprint scan to unlock**
- **This system is Microsoft® Office 2010 Product Key Ready (O10PKR)**

Positioning Processor	<i>Widescreen flexibility; two-spindle</i> Intel® Core™ i5-2410M processor (dual-core, 2.30GHz, 3MB cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology	Preloaded operating system²⁰ - Genuine Windows® 7 Home Premium 64 Preloaded applications¹⁴ (only some listed) <ul style="list-style-type: none"> • Lenovo OneKey Recovery • Lenovo ReadyComm • McAfee® VirusScan® Plus (60 days of virus definitions) • CyberLink YouCam • Microsoft Office 2010 preloaded; purchase product key to activate • Lenovo Energy Management Software • Cyberlink Power2Go (DVD±RW) • Lenovo Security Suite • USB Port Locker • BioExcess
Memory	8GB max ⁷ ; PC3-10600 1333MHz DDR3 , non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
SATA DVD±RW SATA disk	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in 500GB (5400 rpm) / SATA 3.0Gb/s, 7mm or 9.5mm high	
Widescreen display	14.0" (355.6mm) HD (WXGA 1366x768) TFT color, VibrantView (glossy); LED backlight , 200 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, LED indicator	
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 3000 in processor, and NVIDIA GeForce® 410M , PCI Express® x16, 1GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology, external monitor support via analog VGA DB-15 connector / digital HDMI connector	
Keyboard	Full-size keyboard, 6-row, recovery key	
Touch controls	None	
Light sensor	None	
Touch pad	Two-button touch pad with scroll feature, multi-touch	
Dimensions ³	(WxDxH): 13.4" x 9.2" x 1.3"; 340mm x 234.6mm x 33.6mm	Discrete models: 90-watt AC adapter Wireless on/off switch Graphic Optimus/Integrated switch EPEAT™ Silver rating ENERGY STAR® qualified RoHS-compliant Limited Warranty¹² ⇨ 1-year warranty*: * 1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ Mail In repair service ⇨ Service upgrade options (in eligible locations):⁹ <ul style="list-style-type: none"> • 1-year Lenovo Onsite Repair¹³ 78Y1532 • 1-year Onsite with accidental damage protection 78Y1533 • 2-year Lenovo Onsite Repair¹³ 78Y1536 • 3-year Lenovo Depot Repair 78Y1538 ⇨ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686
Weight ²	with optical drive and battery: <i>6-cell</i> : 4.85 lb (2.2 kg)	
Case color	Black top, black bottom	
Case material	<i>Top and palm rest:</i> Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic <i>Bottom:</i> Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion 6-cell	
Battery - life ¹⁰	Up to 5.8 hr	
Chipset	Mobile Intel HM65 Express Chipset	
ExpressCard/34 Multicard reader	None	
Ports	6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity Card, xD-Picture Card™) Three USB 2.0 and one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
PCIe Mini Card	Two PCIe Mini Card slots	
Intel 1000	11b/g/n wireless ⁴ , PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2	
Bluetooth™	Bluetooth 2.1 wireless + EDR, USB 2.0 interface	
Modem	None	
Ethernet	Gigabit ethernet, RealTek® RTL8111E, PCIe x1	
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / stereo speakers (1.5 watt x 2) / one internal analog microphone, microphone input jack (3.5 mm), headphone jack (stereo, 3.5 mm)	
Security	Power-on password, hard disk password, administrator password, security lockhole	
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor	

See footnotes for important warranty information
 US model announced June 22, 2011

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