



Lenovo® ThinkPad X1 Carbon (1st Gen)



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Lenovo ThinkPad X1 Carbon (1st Gen)

# ThinkPad X1 Carbon (1st Gen) 3444 (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>5</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Finger print reader	Blue-tooth	Intel AMT	Intel vPro	Preload	Ann Date (mm/yy)
3444-57G	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S <sup>28</sup>	Ericsson	Lenovo	Finger	BT	iAMT	vPro	Pro 64	08/12
3444-ATG	i5-3317U	4GBx1	14.0" HD	720p	120G SSD	Intel 6205S	None	None	Finger	BT	None	None	Prem 64	10/12

- **Small and medium business (SMB) model(s), part of the WE TopSeller™ Program**
- **A depot repair service 3-year limited warranty**

Positioning Processor	<i>Ultralight, durable, secure, and stylish Ultrabook™; one spindle</i> <b>Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology <b>Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	<b>Preloaded operating system</b> <sup>20</sup> <i>Some:</i> Genuine Windows® 7 Home Premium 64 <i>Some:</i> Genuine Windows 7 Professional 64  <b>Ready to install applications</b> <sup>14</sup> (only some listed) • Rescue and Recovery™ • Password Manager  <b>Preloaded applications</b> <sup>14</sup> (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo Cloud Storage by SugarSync • Lenovo SimpleTap • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Symantec™ VIP • Windows Live™ Essentials
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	
Optical	None	
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor	
mSATA™ SSD	None	
Widescreen display	<i>Some:</i> <b>14.0"</b> (355mm) <b>HD (1366x768) TFT color</b> , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> <b>14.0"</b> (355mm) <b>HD+ (1600x900) TFT color</b> , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio	
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <i>Max external resolution:</i> 2560x1600 (Mini-DisplayPort)@60Hz	
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys	
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>	
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch	
ThinkLight™	None	
Dimensions <sup>3</sup>	<b>14.0W"</b> (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm	
Weight <sup>2</sup>	<i>Integrated battery:</i> from 3.0 lb (1.36kg)	
Case material	<i>Display cover:</i> Carbon Fiber; <i>Bottom:</i> Magnesium/Aluminum	
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery	
Battery - life <sup>10</sup>	<i>Integrated battery (45.8Whr):</i> up to 8.2 hr	
Chipset	<b>Mobile Intel QS77 Express Chipset</b>	
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)	
ExpressCard	None	
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)	
Monitor Cable	None	
PCIe Mini Card	Two PCI Express Mini Card slots	
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2	
PCIe WWAN	<i>Some:</i> Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS	
SIM card	<i>Some:</i> Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required	
Modem	None	
Bluetooth™	Bluetooth 4.0 wireless	
Ethernet	None	
Intel AMT	<i>Some:</i> Intel Active Management Technology (iAMT)	
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack	
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch	
Security chip	Trusted Platform Module, TCG 1.2-compliant	
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	
Limited warranty <sup>12</sup>	<b>3-years/1-yr battery</b> - depot repair service / service upgrades <sup>22</sup> available	Supports ThinkVantage® technologies  90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>

See footnotes for more detailed information

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(G-GS1-3) November 2012

# ThinkPad X1 Carbon (1st Gen) 3444 (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>9</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Finger print reader	Blue-tooth	Intel AMT	Intel vPro	Preload	Ann Date (mm/yy)
3444-AVG	i5-3427U	4GBx1	14.0" HD+	720p	120G SSD	Intel 6205S <sup>28</sup>	None	None	Finger	BT	iAMT	vPro	Win8 Pro64	10/12
3444-6PG	i5-3317U	4GBx1	14.0" HD+	720p	120G SSD	Intel 6205S	None	None	Finger	BT	None	None	Win8 Pro64	10/12

- **Small and medium business (SMB) model(s), part of the WE TopSeller™ Program**
- **A depot repair service 3-year limited warranty**

Positioning Processor	<i>Ultralight, durable, secure, and stylish Ultrabook™; one spindle</i> <b>Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology <b>Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology			<b>Preloaded operating system</b> <sup>20</sup> - Windows® 8 Pro 64-bit  <b>Preloaded applications</b> <sup>5</sup> (only some listed)  - <b>Windows 7 models</b> • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap  - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo QuickLaunch  - <b>All models</b> • Lenovo Solution Center • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo Cloud Storage by SugarSync • Microsoft® Office preloaded; purchase a product key to activate
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets			
Optical	None			
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor			
mSATA™ SSD	None			
Widescreen display	<b>14.0"</b> (355mm) <b>HD+ (1600x900) TFT color</b> , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio			
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus			
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <i>Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz</i>			
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys			
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>			
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch			
ThinkLight™	None			
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm			
Weight <sup>2</sup>	<i>Integrated battery:</i> from 3.0 lb (1.36kg)			
Case material	<i>Display cover:</i> Carbon Fiber; <i>Bottom:</i> Magnesium/Aluminum			
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery			
Battery - life <sup>10</sup>	<i>Integrated battery (45.8Whr):</i> up to 8.2 hr			
Chipset	<b>Mobile Intel QS77 Express Chipset</b>			
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)			
ExpressCard	None			
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)			
Monitor Cable	None			
PCIe Mini Card	Two PCI Express Mini Card slots			
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2			
PCIe WWAN	None			
SIM card	None			
Modem	None			
Bluetooth™	Bluetooth 4.0 wireless			
Ethernet	None			
Intel AMT	<i>Some:</i> Intel Active Management Technology (iAMT)			
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack			
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch			
Security chip	Trusted Platform Module, TCG 1.2-compliant			
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip			
Limited warranty <sup>12</sup>	<b>3-years/1-yr battery</b> - depot repair service / service upgrades <sup>22</sup> available			

| Supports ThinkVantage® technologies | | | |
| 90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service<sup>17</sup> 24 hour x 7 day<sup>18</sup> toll-free support during the warranty period<sup>12</sup> | | | |

See footnotes for more detailed information

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# ThinkPad X1 Carbon (1st Gen) 3448

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>a</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Finger print reader	Blue-tooth	Intel vPro	Global (G) GMP (P)	Preload	Ann Date (mm/yy)
3448-34G	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S <sup>28</sup>	None	None	Finger	BT	vPro	G	Pro 64	08/12
3448-35G	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Pro 64	08/12
3448-25G	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Pro 64	08/12
3448-24G	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Pro 64	08/12
3448-23G	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Pro 64	08/12
3448-22G	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Pro 64	08/12

• A depot repair service 3-year limited warranty

Positioning Processor	<i>Ultralight, durable, secure, and stylish Ultrabook™; one spindle</i> <b>Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology</b> <b>Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology</b>									<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64 <b>Ready to install applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Password Manager <b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo Cloud Storage by SugarSync • Lenovo SimpleTap • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Symantec™ VIP • Windows Live™ Essentials				
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets													
Optical	None													
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor													
mSATA™ SSD	None													
Widescreen display	<b>14.0"</b> (355mm) <b>HD+ (1600x900) TFT color</b> , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio													
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus													
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <i>Max external resolution: 2560x1600 (Mini-DisplayPort) @60Hz</i>													
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>													
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch													
ThinkLight™	None													
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm													
Weight <sup>2</sup>	<b>Integrated battery:</b> from 3.0 lb (1.36kg)													
Case material	<b>Display cover:</b> Carbon Fiber; <b>Bottom:</b> Magnesium/Aluminum													
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery													
Battery - life <sup>10</sup>	<b>Integrated battery (45.8Whr):</b> up to 8.2 hr													
Chipset	<b>Mobile Intel QS77 Express Chipset</b>													
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)													
ExpressCard	None													
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)													
Monitor Cable	None													
PCIe Mini Card	Two PCI Express Mini Card slots													
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2													
PCIe WWAN	None													
SIM card	None													
Modem	None													
Bluetooth™	Bluetooth 4.0 wireless													
Ethernet	None													
Intel AMT	Intel Active Management Technology (iAMT)													
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch													
Security chip	Trusted Platform Module, TCG 1.2-compliant													
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip													
Limited warranty <sup>12</sup>	<b>3-years/1-yr battery</b> - depot repair service / service upgrades <sup>22</sup> available													

See footnotes for more detailed information

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(G-GS1-1) August 2012



# ThinkPad X1 Carbon (1st Gen) 3448 (Windows 8)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>a</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Finger print reader	Blue-tooth	Global (G) Intel vPro	GMP (P)	Preload	Ann Date (mm/yy)
3448-5DG	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S <sup>28</sup>	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-5CG	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-5BG	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-5AG	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-59G	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-58G	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-AYG	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-AXG	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-AWG	i7-3667U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-AVG	i7-3667U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-C4G	i5-3427U	4GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13

## • A depot repair service 3-year limited warranty

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle <b>Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology <b>Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology		<b>Preloaded operating system</b> <sup>20</sup> - Windows® 8 Pro 64-bit  <b>Preloaded applications</b> <sup>5</sup> (only some listed)  - <b>Windows 7 models</b> • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap  - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo QuickLaunch  - <b>All models</b> • Lenovo Solution Center • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo Cloud Storage by SugarSync • Microsoft® Office preloaded; purchase a product key to activate
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets		
Optical	None		
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor		
mSATA™ SSD	None		
Widescreen display	<b>14.0"</b> (355mm) <b>HD+ (1600x900) TFT color</b> , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio		
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus		
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <i>Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz</i>		
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>		
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch		
ThinkLight™	None		
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm		
Weight <sup>2</sup>	<i>Integrated battery:</i> from 3.0 lb (1.36kg)		
Case material	<i>Display cover:</i> Carbon Fiber; <i>Bottom:</i> Magnesium/Aluminum		
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery		
Battery - life <sup>10</sup>	<i>Integrated battery (45.8Whr):</i> up to 8.2 hr		
Chipset	<b>Mobile Intel QS77 Express Chipset</b>		
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)		
ExpressCard	None		
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)		
Monitor Cable	None		
PCIe Mini Card	Two PCI Express Mini Card slots		
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2		
PCIe WWAN	None		
SIM card	None		
Modem	None		
Bluetooth™	Bluetooth 4.0 wireless		
Ethernet	None		
Intel AMT	Intel Active Management Technology (iAMT)		
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack		
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch		
Security chip	Trusted Platform Module, TCG 1.2-compliant		
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip		
Limited warranty <sup>12</sup>	<b>3-years/1-yr battery</b> - depot repair service / service upgrades <sup>22</sup> available		

See footnotes for more detailed information

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(G-GS1-4) February 2013

# ThinkPad X1 Carbon (1st Gen) 3448 (Windows 8) - MultiTouch

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>9</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	PCIe Mini Card SIM card	Finger print reader	Blue-tooth	Intel vPro	Global (G) GMP (P)	Preload	Ann Date (mm/yy)
3448-8SG	i5-3427U	4GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S <sup>28</sup>	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
3448-8RG	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
3448-7NG	i5-3427U	4GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
3448-7MG	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
3448-C8G	i7-3667U	8GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13
3448-C7G	i7-3667U	8GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13
3448-C6G	i7-3667U	8GBx1	14.0" HD+ Multi	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13
3448-C5G	i7-3667U	8GBx1	14.0" HD+ Multi	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13

• A depot repair service 3-year limited warranty

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle <b>Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology <b>Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology		<b>Preloaded operating system</b> <sup>20</sup> - Windows® 8 Pro 64-bit  <b>Preloaded applications</b> <sup>5</sup> (only some listed)  - <b>Windows 7 models</b> • Lenovo® Message Center Plus • ThinkVantage Product Recovery • ThinkVantage Power Manager • Lenovo SimpleTap  - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo QuickLaunch  - <b>All models</b> • Lenovo Solution Center • Password Manager • Fingerprint Software (fingerprint models) • Lenovo Cloud Storage by SugarSync • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions)
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets		
Optical	None		
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor		
mSATA™ SSD	None		
Widescreen display	<b>14.0"</b> (355mm) <b>HD+ (1600x900) TFT color</b> , anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 400:1 contrast ratio, <b>MultiTouch</b> screen supports ten-finger gesture		
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus		
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <i>Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz</i>		
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys		
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>		
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch		
ThinkLight™	None		
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.0" x 8.9" x 0.39-0.82"; 331mm x 226mm x 10.0-20.8mm		
Weight <sup>2</sup>	<b>Integrated battery:</b> from 3.4 lb (1.54kg)		
Case material	<b>Display cover:</b> Carbon Fiber; <b>Bottom:</b> Magnesium/Aluminum		
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery		
Battery - life <sup>10</sup>	<b>Integrated battery (45.8Whr):</b> up to 8.2 hr		
Chipset	<b>Mobile Intel QS77 Express Chipset</b>		
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)		
ExpressCard	None		
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)		
Monitor Cable	None		
PCIe Mini Card	Two PCI Express Mini Card slots		
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2		
PCIe WWAN	None		
SIM card	None		
Modem	None		
Bluetooth™	Bluetooth 4.0 wireless		
Ethernet	None		
Intel AMT	Intel Active Management Technology (iAMT)		
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack		
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch		
Security chip	Trusted Platform Module, TCG 1.2-compliant		
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip		
Limited warranty <sup>12</sup>	<b>3-years/1-yr battery</b> - depot repair service / service upgrades <sup>22</sup> available		

| Supports ThinkVantage® technologies | | |
| 90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service<sup>17</sup> 24 hour x 7 day<sup>18</sup> toll-free support during the warranty period<sup>12</sup> | | |

See footnotes for more detailed information

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(G-GS1-7) February 2013

# ThinkPad X1 Carbon (1st Gen) 3460 (Onsite)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>2</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Mini DP to VGA Cable	USB 2.0 Ethernet Adapter	Intel AMT	Intel vPro	Global (G) GMP (P)	Ann Date (mm/yy)
3460-35G	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S <sup>28</sup>	None	None	None	None	iAMT	vPro	G P	Pro 64 08/12
3460-34G	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	None	None	iAMT	vPro	G P	Pro 64 08/12
3460-25G	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	selectable	None	None	iAMT	vPro	G P	Pro 64 08/12
3460-25G	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	None	None	iAMT	vPro	G P	Pro 64 08/12
3460-24G	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	None	None	iAMT	vPro	G P	Pro 64 08/12
3460-23G	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	None	None	iAMT	vPro	G P	Pro 64 08/12
3460-22G	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	None	None	iAMT	vPro	G P	Pro 64 08/12
3460-B6G	i5-3317U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	mDP-VGA	Ethernet	None	No		Pro 64 11/12
3460-B5G	i5-3317U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	mDP-VGA	Ethernet	None	No		Pro 64 11/12
3460-B4G	i5-3317U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	Ericsson	selectable	mDP-VGA	Ethernet	None	No		Pro 64 11/12
3460-B3G	i5-3317U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	selectable	mDP-VGA	Ethernet	None	No		Pro 64 11/12
3460-CZG	i5-3337U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	Ericsson	selectable	mDP-VGA	Ethernet	None	No		Pro 64 03/13
3460-CYG	i5-3337U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	mDP-VGA	Ethernet	None	No		Pro 64 03/13
3460-CXG	i5-3337U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	mDP-VGA	Ethernet	None	No		Pro 64 03/13
3460-CWG	i5-3337U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	selectable	mDP-VGA	Ethernet	None	No		Pro 64 03/13

• Some models are part of the Global Models Plus program with limited onsite service<sup>24</sup> 3-year limited warranty

Positioning Processor	<b>Ultralight, durable, secure, and stylish Ultrabook™; one spindle</b> <b>Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology <b>Intel Core i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology <b>Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology <b>Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology										<b>Preloaded operating system<sup>20</sup></b> Genuine Windows® 7 Professional 64  <b>Ready to install applications<sup>14</sup></b> (only some listed) • Rescue and Recovery™ • Password Manager  <b>Preloaded applications<sup>14</sup></b> (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • Fingerprint Software (fingerprint models) • ThinkVantage System Update • ThinkVantage Power Manager • Lenovo Cloud Storage by SugarSync • Lenovo SimpleTap • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Symantec™ VIP • Windows Live™ Essentials				
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets														
Optical	None														
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor														
mSATA™ SSD	None														
Widescreen display	<b>14.0"</b> (355mm) <b>HD+ (1600x900) TFT color</b> , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio														
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus														
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <b>Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz</b>														
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>														
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch														
ThinkLight™	None														
Dimensions <sup>3</sup>	<b>14.0W" (WxDxH):</b> 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm														
Weight <sup>2</sup>	<b>Integrated battery:</b> from 3.0 lb (1.36kg)														
Case material	<b>Display cover:</b> Carbon Fiber; <b>Bottom:</b> Magnesium/Aluminum														
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery														
Battery - life <sup>10</sup>	<b>Integrated battery (45.8Whr):</b> up to 8.2 hr														
Chipset	<b>Mobile Intel QS77 Express Chipset</b>														
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)														
ExpressCard	None														
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)														
Monitor Cable	<b>Some:</b> Mini DisplayPort to VGA Monitor Cable (0A36536)														
PCIe Mini Card	Two PCI Express Mini Card slots														
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2														
PCIe WWAN	<b>Some:</b> Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS														
SIM card	<b>Some:</b> User selectable, contract required with service provider														
Modem	None														
Bluetooth™	Bluetooth 4.0 wireless														
Ethernet	<b>Some:</b> Lenovo USB 2.0 Ethernet Adapter														
Intel AMT	<b>Some:</b> Intel Active Management Technology (iAMT)														
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch														
Security chip	Trusted Platform Module, TCG 1.2-compliant														
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip														
Limited warranty <sup>12</sup>	<b>3-years/1-year battery, limited onsite service<sup>24</sup>, 8 am - 5 pm, Mon - Fri coverage</b> excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available														

See footnotes for more detailed information

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(G-GS1-2) August 2013



# ThinkPad X1 Carbon (1st Gen) 3460 (Onsite) - Windows 8

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>9</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Finger print reader	Blue-tooth	Intel AMT	Intel vPro	Global (G) GMP (P)	Preload	Ann Date (mm/yy)
3460-8XG	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S <sup>28</sup>	Ericsson	selectable	Finger	BT	iAMT	vPro		Win7 Pro64	10/12
3460-7XG	i5-3317U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	None	No		Win7 Pro64	10/12
3460-4KG	i5-3317U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	None	No		Win8 Pro64	10/12
3460-5CG	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-5DG	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-5BG	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-5AG	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-59G	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-58G	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-AYG	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-AXG	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-AWG	i7-3667U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-AVG	i7-3667U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	10/12
3460-8YG	i5-3317U	4GBx1	14.0" HD	720p	120G SSD	Intel 6205S	None	None	Finger	BT	None	No		Win8 Pro64	10/12
3460-82G	i5-3427U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Finger	BT	iAMT	vPro		Win7 Pro64	10/12
3460-7ZG	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Finger	BT	iAMT	vPro		Win7 Pro64	10/12
3460-7YG	i5-3317U	4GBx1	14.0" HD+	720p	120G SSD	Intel 6205S	None	None	Finger	BT	None	No		Win7 Pro64	10/12
3460-7UG	i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Finger	BT	iAMT	vPro		Win7 Pro64	10/12
3460-5PG	i5-3317U	4GBx1	14.0" HD+	720p	120G SSD	Intel 6205S	None	None	Finger	BT	None	No		Win8 Pro64	10/12
3460-4MG	i5-3427U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Finger	BT	iAMT	vPro		Win8 Pro64	10/12
3460-4LG	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Finger	BT	iAMT	vPro		Win8 Pro64	10/12
3460-CBG	i5-3427U	4GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	G P	Win8 Pro64	02/13
Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology											Preloaded operating system <sup>20</sup> - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit			
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets											Preloaded applications <sup>5</sup> (only some listed)  - <b>Windows 7 models</b> • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap  - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo QuickLaunch  - <b>All models</b> • Lenovo Solution Center • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo Cloud Storage by SugarSync • Microsoft® Office preloaded; purchase a product key to activate			
Optical	None														
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor														
mSATA™ SSD	None														
Widescreen display	Some: 14.0" (355mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio														
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus														
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz														
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys														
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>														
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch														
ThinkLight™	None														
Dimensions <sup>3</sup>	14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm														
Weight <sup>2</sup>	Integrated battery: from 3.0 lb (1.36kg)														
Case material	Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum														
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery														
Battery - life <sup>10</sup>	Integrated battery (45.8Whr): up to 8.2 hr														
Chipset	Mobile Intel QS77 Express Chipset														
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)														
ExpressCard	None														
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)														
Monitor Cable	None														
PCIe Mini Card	Two PCI Express Mini Card slots														
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2														
PCIe WWAN	Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS														
SIM card	Some: User selectable, contract required with service provider														
Modem	None														
Bluetooth™	Bluetooth 4.0 wireless														
Ethernet	None														
Intel AMT	Some: Intel Active Management Technology (iAMT)														
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack														
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch														
Security chip	Trusted Platform Module, TCG 1.2-compliant														
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip														
Limited warranty <sup>12</sup>	3-years/1-year battery, limited onsite service <sup>24</sup> , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available														
Supports ThinkVantage® technologies 90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>															

See footnotes for more detailed information

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(G-GS1-5) August 2013



# ThinkPad X1 Carbon (1st Gen) 3460 (Onsite) - Windows 8 - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>3</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	USB 2.0 Ethernet Adapter	Intel AMT	Global (G) Intel vPro	GMP (P)	Preload	Ann Date (mm/yy)
3460-CVG	i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S <sup>28</sup>	None	None	Ethernet	iAMT	vPro	No	Win8 Pro64	03/13
3460-CUG	i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Ethernet	iAMT	vPro	No	Win7 Pro64	03/13
3460-CSG	i5-3337U	4GBx1	14.0" HD+	720p	120G SSD	Intel 6205S	None	None	Ethernet	None	No	No	Win8 64	03/13
3460-CRG	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Ethernet	iAMT	vPro	No	Win8 64	03/13
3460-CQG	i5-3427U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Ethernet	iAMT	vPro	No	Win8 64	03/13
3460-CPG	i5-3337U	4GBx1	14.0" HD+	720p	120G SSD	Intel 6205S	None	None	Ethernet	None	No	No	Win8 Pro64	03/13
3460-CNG	i5-3337U	4GBx1	14.0" HD+	720p	120G SSD	Intel 6205S	None	None	Ethernet	None	No	No	Win7 Pro64	03/13
3460-CMG	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	No	Win8 Pro64	03/13
3460-CLG	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	No	Win7 Pro64	03/13
3460-CKG	i5-3427U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	No	Win8 Pro64	03/13
3460-CJG	i5-3427U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	No	Win7 Pro64	03/13
3460-DPG	i7-3667U	8GBx1	14.0" HD+	720p	256G SSD OPAL	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	No	Win8 Pro64	06/13
3460-DNG	i7-3667U	8GBx1	14.0" HD+	720p	256G SSD OPAL	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	No	Win7 Pro64	06/13
Positioning Processor	<i>Ultralight, durable, secure, and stylish Ultrabook™; one spindle</i> <b>Intel® Core™ i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology <b>Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology <b>Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000,</b> DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology									<b>Preloaded operating system<sup>20</sup></b> - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 64-bit - Some: Windows 8 Pro 64-bit				
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets									<b>Preloaded applications<sup>5</sup></b> (only some listed) - <b>Windows 7 models</b> • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap - <b>Windows 8 models</b> • Lenovo Support • Lenovo Companion • Lenovo QuickLaunch - <b>All models</b> • Lenovo Solution Center • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo Cloud Storage by SugarSync • Microsoft® Office preloaded; purchase a product key to activate				
Optical	None													
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor													
mSATA™ SSD	None													
Widescreen display	<i>Some: 14.0" (355mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio</i> <i>Some: 14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio</i>													
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus													
Graphics	<b>Intel HD Graphics 4000</b> in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; <i>Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz</i>													
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys													
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>													
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch													
ThinkLight™	None													
Dimensions <sup>3</sup>	<i>14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm</i>													
Weight <sup>2</sup>	<i>Integrated battery: from 3.0 lb (1.36kg)</i>													
Case material	<i>Display cover: Carbon Fiber;</i> <i>Bottom: Magnesium/Aluminum</i>													
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery													
Battery - life <sup>10</sup>	<i>Integrated battery (45.8Whr): up to 8.2 hr</i>													
Chipset	<b>Mobile Intel QS77 Express Chipset</b>													
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)													
ExpressCard	None													
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)													
Monitor Cable	None													
PCIe Mini Card	Two PCI Express Mini Card slots													
PCIe WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2													
PCIe WWAN	<i>Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS</i>													
SIM card	<i>Some: User selectable, contract required with service provider</i>													
Modem	None													
Bluetooth™	Bluetooth 4.0 wireless													
Ethernet	Lenovo USB 2.0 Ethernet Adapter													
Intel AMT	<i>Some: Intel Active Management Technology (iAMT)</i>													
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack													
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch													
Security chip	Trusted Platform Module, TCG 1.2-compliant													
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip													
Limited warranty <sup>12</sup>	<b>3-years/1-year battery, limited onsite service<sup>24</sup>, 8 am - 5 pm, Mon - Fri</b> coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available									<b>Supports ThinkVantage® technologies</b>  90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>				

See footnotes for more detailed information

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# ThinkPad X1 Carbon (1st Gen) 3460 (Onsite) - Win 8 (MultiTouch)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB <sup>5</sup> rpm	PCle Mini Card WLAN	PCle Mini Card WWAN/ mSATA	SIM card	USB 2.0 Ethernet Adapter	Intel AMT	Intel vPro	Global (G) GMP (P)	Preload	Ann Date (mm/yy)
3460-ATG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 256G SSD	Intel 6205S <sup>28</sup>	Ericsson	selectable	None	iAMT	vPro	Win7 Pro64	12/12	
3460-ASG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 256G SSD	Intel 6205S	Ericsson	selectable	None	iAMT	vPro	Win8 Pro64	12/12	
3460-ARG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	Ericsson	selectable	None	iAMT	vPro	Win7 Pro64	12/12	
3460-AQG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	Ericsson	selectable	None	iAMT	vPro	Win8 Pro64	12/12	
3460-APG	i5-3427U	4GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	Ericsson	selectable	None	iAMT	vPro	Win7 Pro64	12/12	
3460-ANG	i5-3427U	4GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	Ericsson	selectable	None	iAMT	vPro	Win8 Pro64	12/12	
3460-AMG	i5-3427U	4GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	12/12	
3460-ALG	i5-3427U	4GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	12/12	
3460-9SG	i5-3427U	4GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	12/12	
3460-9RG	i5-3427U	4GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	12/12	
3460-CGG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 256G SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	02/13	
3460-CEG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	02/13	
3460-CDG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	02/13	
3460-CCG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 128G SSD	Intel 6205S	None	None	None	iAMT	vPro	G P Win8 Pro64	02/13	
3460-D7G	i7-3667U	8GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	None	None	Ethernet	iAMT	vPro	Win8 64	03/13	
3460-D6G	i5-3337U	4GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	None	None	Ethernet	None	No	Win8 64	03/13	
3460-D5G	i7-3667U	8GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	Win8 Pro64	03/13	
3460-D4G	i7-3667U	8GBx1	14.0" HD+	Multi	720p 240G FDE SSD	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	Win7 Pro64	03/13	
3460-D3G	i5-3337U	4GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	Ericsson	selectable	Ethernet	None	No	Win8 Pro64	03/13	
3460-D2G	i5-3337U	4GBx1	14.0" HD+	Multi	720p 180G SSD	Intel 6205S	Ericsson	selectable	Ethernet	None	No	Win7 Pro64	03/13	
3460-DRG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 256G SSD OPAL	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	Win8 Pro64	06/13	
3460-DQG	i7-3667U	8GBx1	14.0" HD+	Multi	720p 256G SSD OPAL	Intel 6205S	Ericsson	selectable	Ethernet	iAMT	vPro	Win7 Pro64	06/13	
Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology									Preloaded operating system <sup>20</sup> - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 64-bit - Some: Windows 8 Pro 64-bit				
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets									Preloaded applications <sup>5</sup> (only some listed)				
Optical	None									- Windows 7 models				
SATA disk	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor									• Lenovo® Message Center Plus				
mSATA™ SSD	None									• ThinkVantage Product Recovery				
Widescreen display	14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 400:1 contrast ratio, MultiTouch screen supports ten-finger gesture									• Access Connections™				
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus									• ThinkVantage Power Manager				
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz									• Lenovo SimpleTap				
Keyboard	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys									- Windows 8 models				
TrackPoint®	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar <sup>13</sup>									• Lenovo Support				
Touchpad	UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch									• Lenovo Companion				
ThinkLight™	None									• Lenovo QuickLaunch				
Dimensions <sup>3</sup>	14.0W" (WxDxH): 13.0" x 8.9" x 0.39-0.82"; 331mm x 226mm x 10.0-20.8mm									- All models				
Weight <sup>2</sup>	Integrated battery: from 3.4 lb (1.54kg)									• Lenovo Solution Center				
Case material	Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum									• Password Manager				
Battery - type	Integrated Lithium Polymer 4-cell RapidCharge battery									• ThinkVantage System Update				
Battery - life <sup>10</sup>	Integrated battery (45.8Whr): up to 8.2 hr									• Fingerprint Software (fingerprint models)				
Chipset	Mobile Intel QS77 Express Chipset									• Lenovo Cloud Storage by SugarSync				
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)									• Microsoft® Office preloaded; purchase a product key to activate				
ExpressCard	None									• Norton™ Internet Security (30 days of virus definitions)				
Ports	One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)													
Monitor Cable	None													
PCle Mini Card	Two PCI Express Mini Card slots													
PCle WLAN <sup>4</sup>	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2													
PCle WWAN	Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS													
SIM card	Some: User selectable, contract required with service provider													
Modem	None													
Bluetooth™	Bluetooth 4.0 wireless													
Ethernet	Some: Lenovo USB 2.0 Ethernet Adapter													
Intel AMT	Some: Intel Active Management Technology (iAMT)													
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack									Supports ThinkVantage® technologies				
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch									90-watt AC Adapter (RapidCharge)				
Security chip	Trusted Platform Module, TCG 1.2-compliant									ThinkPad Roll Cage (bottom cover)				
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip									EPEAT™ Gold rating				
Limited warranty <sup>12</sup>	3-years/1-year battery, limited onsite service <sup>24</sup> , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available									ENERGY STAR® 5.2-compliant				
										ROHS-compliant				
										International Warranty Service <sup>17</sup>				
										24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>				

See footnotes for more detailed information

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