# ThinkPad X1 Carbon (3rd Gen) Platform Specifications



**Processor**

5th Generation Intel® Core™ i5 / i7 Processor

| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics |
|---|---|---|---|---|---|---|---|
| i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 5500 |
| i5-5300U | | | 2.3 GHz | 2.9 GHz | 3MB | | |
| i7-5500U | | | 2.4 GHz | 3 GHz | 4MB | | |
| i7-5600U | | | 2.6 GHz | 3.2 GHz | 4MB | | |

**Graphics**

Intel HD Graphics 5500 in processor,
external digital monitor support via Mini DisplayPort or HDMI™
(supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable);
supports three independent displays;
Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 4096x2304 (HDMI)@24Hz

**Chipset**

Intel SoC (System on Chip) platform

**Memory**

4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L /
soldered to systemboard, no sockets

**Display**

*Some:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio
*Some:* 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS, 170° viewing angle

**Multi-touch *(opt)***

Capacitive-type multi-touch, supports 10-finger gesture, 270 nits

**Storage**

M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)

**Optical**

None

**Ethernet**

Gigabit Ethernet via Ethernet extension cable

**Bluetooth™**

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**WLAN[4]**

*One of the following, configurable by model:*

- 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card
- 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card
- 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card

**WWAN *(optional)***

*One of the following, configurable by model:*

- Wireless WAN upgradable
- Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card
- Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card

**SIM card *(opt)***

AT&T® or Verizon® LTE (4G), contract required with service provider

**Dimensions[3]**

*WQHD (WxDxH):* 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm
*FHD (WxDxH):* 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm
*WQHD Touch (WxDxH):* 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm

**Weight[2]**

| *Models* | *FHD* | *WQHD* | *WQHD Touch* |
|---|---|---|---|
| *Weight* | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg |

**Case material**

*Display cover:* Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic;
*Bottom:* Magnesium/Aluminum

**Media reader**

None

**Ports**

Two USB 3.0 (one Always On), Mini DisplayPort, HDMI,
Ethernet extension connector, Lenovo OneLink connector

**Monitor cable**

*Optional:* Mini DisplayPort to VGA Monitor Cable

**Camera**

HD720p resolution, low light sensitive, fixed focus, gesture input

**Audio support**

HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 /
dual array microphone, combo audio/microphone jack

**Keyboard**

6-row, LED backlit, spill-resistant, multimedia Fn keys

**UltraNav™**

TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch

**Security**

Power-on password, hard disk password, supervisor password, security keyhole, reset switch

**Security chip**

Trusted Platform Module, TCG 1.2-compliant

**ThinkEngine**

Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures

**vPro *(optional)***

Intel vPro Technology

**Fingerprint reader**

Fingerprint reader on the keyboard bezel, swipe sensor

**Battery type**

Integrated Lithium Polymer 8-cell *(50Wh)* RapidCharge battery

**Max battery life[10]**

| *Models* | *FHD* | *WQHD* | *WQHD Touch* |
|---|---|---|---|
| *Battery life* | 10.9 hr | 9.9 hr | 9.9 hr |

**AC adapter**

45W AC adapter, 65W Slim AC adapter, or 65W AC adapter

**RapidCharge**

| *AC adapter* | *45W* | *65W Slim* | *65W* |
|---|---|---|---|
| *Charge to 80%* | 1.1hr | 55min | 55min |
| *Charge to 100%* | 2.5hr | 2.3hr | 2.3hr |

**Preload**

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

*Some:* Windows 8.1 64-bit
*Some:* Windows 8.1 Pro 64-bit
*Some:* Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo SHAREit
- Lenovo REACHit
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model)
- McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)

**Limited warranty[12]**

*One of the following, configurable by model:*

- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service[24]
- 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)

**Mil-Spec test**

MIL-STD-810G military certification

**Environment**

EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

| Model | 20BT005S++ |
| --- | --- |
| Product | X1 Carbon (3rd Gen) |
| Region | WE |
| Machine Type | 20BT |
| TopSeller | No |
| Processor | i7-5600U (2C, 2.6 / 3.2GHz, 4MB, 1600MHz) |
| vPro | vPro |
| Graphics | Intel HD Graphics 5500 |
| Memory (soldered) | 8GBx1 |
| Display | 14" WQHD (2560x1440) IPS |
| Multi-touch | 10-point multi-touch |
| Storage | 256GB SSD PCIe |
| Optical | None |
| WLAN &Bluetooth | Intel 7265 ac + BT4.0 |
| WWAN | Sierra EM7345 |
| SIM Card | None |
| Monitor Cable | None |
| Camera | 720p |
| Backlit Keyboard | Backlit Keyboard |
| Fingerprint Reader | Fingerprint Reader |
| Battery Cells | 8-cell (50Wh) |
| Power Adapter (watt) | 65W |
| Preload | Windows 8.1 Pro 64-bit |
| Base Warranty | 3-year onsite, Onsite International Delivery |
| Global | No |
| Ann Date (mm/yy) | 04/15 |








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