# ThinkPad X1 Yoga (4th Gen) Platform Specifications

| Processor | 8th Generation Intel® Core™ i5 / i7 Processor or<br>10th Generation Intel® Core™ i5 / i7 Processor (Not available in EMEA) |
|---|---|

| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics |
|---|---|---|---|---|---|---|---|
| i5-8265U | | | 1.6 GHz | 3.9 GHz | 6MB | | Intel UHD Graphics 620 |
| i5-8365U | | | 1.6 GHz | 4.1 GHz | 6MB | | |
| i7-8565U | 4 | 8 | 1.8 GHz | 4.6 GHz | 8MB | LPDDR3-2133 | |
| i7-8665U | | | 1.9 GHz | 4.8 GHz | 8MB | | |
| i5-10210U | | | 1.6 GHz | 4.2 GHz | 6MB | | Intel UHD Graphics |
| i7-10510U | | | 1.8 GHz | 4.9 GHz | 8MB | | |
| i7-10710U | 6 | 12 | 1.1 GHz | 4.7 GHz | 12MB | | |

| Graphics | Intel UHD Graphics 620 or Intel UHD Graphics in processor;<br>supports external digital monitor via HDMI or USB Type-C™ / Thunderbolt;<br>supports three independent displays;<br>Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@24Hz (HDMI) |
|---|---|
| Chipset | Intel SoC (System on Chip) platform |
| Memory | 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets |

**Display**

| Size | Resolution | Type | Surface | Brightness | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle |
|---|---|---|---|---|---|---|---|---|
| 14.0" | FHD (1920x1080) Low Power | IPS | Glossy | 380 nits | 16:9 | 800:1 | 72% | 170° |
| 14.0" | FHD (1920x1080) ThinkPad Privacy Guard | IPS | Glossy | 380 nits | 16:9 | 1000:1 | 72% | 170° |
| 14.0" | WQHD (2560x1440) | IPS | Glossy | 280 nits | 16:9 | 800:1 | 72% | 170° |
| 14.0" | UHD (3840x2160) Dolby Vision™ HDR400 | IPS | Glossy | 470 nits | 16:9 | 1400:1 | 90% | 170° |

| Multi-touch | Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge),<br>Supports 10-finger gesture |
|---|---|
| Hinge | Yoga hinge, 360 degree |
| Convert-mode | Laptop, tent, stand, and tablet |
| Pen | ThinkPad Pen Pro, active pen for multi-touch display, on-board rechargeable |
| Storage | *One of the following, configurable by model:*<br>• M.2 2280 SSD / SATA 6.0Gb/s<br>• M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4<br>• Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4 |
| Optical | None |
| Ethernet | Native Intel Ethernet Connection I1219-LM (*vPro*) or I1219-V (*Non-vPro*)<br>via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2 |
| WLAN | Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card |
| Bluetooth™ | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter |
| WWAN (optional) | *One of the following, configurable by model:*<br>• Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card<br>• Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card |
| SIM card (opt) | Nano-SIM card slot, optional Verizon LTE (US) SIM card |

| Dimensions | *WxDxH:* 12.71" x 8.58" x 0.61"; 323mm x 218mm x 15.5mm |
|---|---|
| Weight | *Privacy Guard model:* starting at 3.24lb / 1.47kg<br>*Other model:* starting at 2.99 lb / 1.36kg |
| Case color | Iron Grey |
| Case material | *Display cover:* Aluminium;<br>*Bottom:* Magnesium |
| Smart card reader | None |
| Media reader | None |
| Ports | Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, side docking connector, security keyhole<br>*\* Depending on many factors, actual data transfer speed may be lower than theoretical speed* |
| Monitor cabl | *Optional:* Lenovo HDMI to VGA Monitor Adapter |
| Bundled Accy | *Optional:* ThinkPad Ethernet Extension Adapter Gen 2 |
| Camera (optional) | *One of the following, configurable by model:*<br>• HD720p camera with ThinkShutter camera privacy, fixed focus<br>• IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus |
| Audio support | HD Audio, Realtek® ALC1012L codec,<br>Stereo speakers, 2W x 2, 0.8W x 2, Dolby® Audio™ Atmos /<br>4 array 360-degree far-field microphones, headphone / microphone combo jack |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight |
| UltraNav™ | TrackPoint® pointing device and buttonless Glass surface multi-touch touchpad |
| Security | Power-on password, supervisor password, system management password, hard disk password |
| Security chip | Discrete TPM 2.0 TCG Certified |
| System Mgt | *Optional:* Intel vPro Technology |
| Fingerprint reader | Touch style match on chip fingerprint reader on the palm rest |
| NFC | *Optional:* Near Field Communication |
| Battery | Integrated Li-Ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter |
| Max battery life | *MobileMark® 2014:* 18.1 hrs<br>*\* Battery life varies significantly with settings, usage, & other factors* |
| AC adapter | 45W or 65W USB Type-C AC adapter |
| G-sensor | 3D accelerometer |
| Gyroscope | 3D gyrometer |
| GPS | GPS function is integrated into WWAN module |
| Preload | *One of the following, configurable by model:*<br>• Windows® 10 Pro 64<br>• Windows 10 Home 64 |
| Limited warranty | *One of the following, configurable by model:*<br>• 1-year depot repair service<br>• 1-year depot with 2-year planar<br>• 3-year/1-yr battery depot repair service |
| Mil-Spec test | MIL-STD-810G military testing |
| Environment | EPEAT™ Gold; ENERGY STAR® 7.1; RoHS-compliant |

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