

# ThinkPad X1 Yoga (3<sup>rd</sup> Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i5 / i7 Processor	Smart card reader	None																												
	<table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>i5-8250U</td> <td rowspan="4">4</td> <td rowspan="4">8</td> <td>1.6 GHz</td> <td>3.4 GHz</td> <td>6MB</td> <td rowspan="4">LPDDR3-2133</td> <td rowspan="4">Intel UHD Graphics 620</td> </tr> <tr> <td>i5-8350U</td> <td>1.7 GHz</td> <td>3.6 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-8550U</td> <td>1.8 GHz</td> <td>4.0 GHz</td> <td>8MB</td> </tr> <tr> <td>i7-8650U</td> <td>1.9 GHz</td> <td>4.2 GHz</td> <td>8MB</td> </tr> </tbody> </table>	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	LPDDR3-2133	Intel UHD Graphics 620	i5-8350U	1.7 GHz	3.6 GHz	6MB	i7-8550U	1.8 GHz	4.0 GHz	8MB	i7-8650U	1.9 GHz	4.2 GHz	8MB	Media reader	MicroSD card reader, supports UHS-II
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i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	LPDDR3-2133	Intel UHD Graphics 620																								
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Graphics	Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)	Ports	Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader																												
Chipset	Intel SoC (System on Chip) platform	WiGig dock	None																												
Memory	8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets	Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to VGA: Lenovo USB-C to VGA Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter																												
Display	<p><i>Some:</i> 14.0" (355mm) FHD (1920x1080), LED backlight, 270 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS</p> <p><i>Some:</i> 14.0" (355mm) WQHD (2560x1440), LED backlight, 270 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS</p> <p><i>Some:</i> 14.0" (355mm) HDR WQHD (2560x1440) with Dolby Vision™, LED backlight, 500 nits, 16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle, IPS</p>	Camera (optional)	One of the following, configurable by model: 720p: HD720p camera with ThinkShutter camera privacy, fixed focus IR & 720p: IR camera and HD720p camera, fixed focus * WWAN models and HDR panel models can not support IR camera																												
Multi-touch	Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture, reduces overall display brightness by 10%	Audio support	HD Audio, Realtek® ALC3286 codec, Dolby® Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack																												
Hinge	Yoga hinge, 360 degree	Keyboard	6-row wave keyboard (rise & fall), spill-resistant, multimedia Fn keys, LED backlit																												
Convert-mode	Laptop, tent, stand, and tablet	UltraNav™	TrackPoint® pointing device and 3+2 buttons multi-touch clickpad																												
Pen (optional)	ThinkPad Pen Pro, active pen for multi-touch display, on-board rechargeable	Security	Power-on password, hard disk password, supervisor password, security keyhole																												
Storage	<p><i>Some:</i> M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD)</p> <p><i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)</p>	Security chip	Discrete TPM 2.0 TCG Certified																												
Optical	None	vPro (optional)	Intel vPro Technology																												
Ethernet	Native Intel Ethernet Connection WGI219-LM (vPro) via optional ThinkPad Ethernet Extension Cable	Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest																												
WLAN	Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS	NFC (optional)	Near Field Communication																												
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter	Battery	Integrated Li-Ion 54Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter																												
WWAN (optional)	Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card	Max battery life	MobileMark® 2014: 15.4 hr																												
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card	AC adapter	45W or 65W USB Type-C AC adapter																												
Dimensions	WxDxH: 13.11" x 9.02" x 0.67"; 333mm x 229mm x 17.05mm	Light sensor	Ambient Light Sensor																												
Weight	Starting at 3.08 lb (1.4kg)	G-sensor	3D accelerometer and 3D magnetometer																												
Case color	Black or silver	Compass	None																												
Case material	Display cover: Carbon-Fiber and Glass-Fiber hybrid; Bottom: magnesium-PPS hybrid	Gyroscope	3D gyrometer																												
		Preload	Windows 10 Pro 64																												
		Limited warranty	One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service																												
		Mil-Spec test	MIL-STD-810G military certification																												
		Environment	EPEAT™ Gold; ENERGY STAR®; RoHS-compliant																												