ThinkPad Helix 2nd Gen 20CG0021US

Region
US

Machine Type
20CG

TopSeller
TopSeller

Processor
Core M3-5Y71 (2C, 1.2 / 2.9GHz, 4MB)

Graphics
Integrated Intel HD Graphics 5300

Memory
4GB Soldered

Display
11.6" FHD (1920x1080) IPS

Multi-touch
10-point Multi-touch

Storage
128GB SSD M.2

WLAN + Bluetooth
Intel 7265 ac, 2x2 + BT4.0

WWAN
None

SIM Card
None

Smart Card Reader
None

Monitor Cable
None

Camera
Front 2.0MP / Rear 5.0MP

Keyboard Docking
Non-pro Keyboard

Smart Cover
None

Pen
Digitizer Pen

Fingerprint Reader
Fingerprint Reader

NFC
None

Battery
2-cell (35Wh)

Power Adapter
36W

Operating System
Windows 8.1 Pro 64-bit

Warranty
1-year, Depot

Global
No

Ann Date (mm/yy)
03/15

Note:
Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "**" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries

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ThinkPad Helix (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Positioning
Convertible with many modes - Tent, Notebook, Stand, Desktop, and Tablet

Processor
5th Generation Intel® Core™ M or Core M vPro™ Processor

Processor Number	# of Cores	# of Threads	Clock Speed	Max Turbo Frequency	Cache	Memory speed	Processor Graphics	Intel vPro Technology
5Y10	2	4	0.8 GHz	2.0 GHz	4MB	LPDDR3-1600	Intel HD graphics 5300	No
5Y70			1.1 GHz	2.6 GHz				Yes
5Y10C			0.8 GHz	2.0 GHz				No
5Y71			1.2 GHz	2.9 GHz				Yes

Graphics
Intel HD Graphics 5300 in processor,
external digital monitor support via micro HDMI, dual independent display;
Max external resolution: 1920x1080 (micro HDMI)@60Hz

Chipset
Intel Core M & Intel Core M vPro

Memory
8GB max / PC3-12800 1600MHz LPDDR3, soldered to systemboard, no sockets

Display
11.6" (295mm) FHD (1920x1080) TFT color,
VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution

Digitizer Pen
Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required

Storage
M.2 2280 SSD, 128GB or 256GB, 256GB SSD supports OPAL

Optical
None

Ethernet
None

WLAN
11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 Card

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

WWAN
Optional: Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

Micro SIM card *(optional)*
One of the following, configurable by model:
- AT&T® or Verizon® LTE (4G), contract required with service provider
- User selectable, contract required with service provider

Smart Card Read
Optional: Smart Card reader

Monitor Cable
Optional: Micro-HDMI to VGA monitor cable

Light sensor
Ambient Light Sensor

G-sensor/ eCompass
3D accelerometer and 3D magnetometer
3D compass, 3D inclinometer

Gyroscope
3D gyrometer

Dimensions
11.6W" WLAN/WWAN: 11.9" x 7.58" x 0.38" (301.1mm x 192.5mm x 9.6mm)
11.6W" SmartCard reader: 11.9" x 7.58" x 0.76" (301.1mm x 192.5mm x 19.4mm)

Tablet Weight

WiFi/Touch	*WiFi/Digitizer*	*WWAN/Touch*	*WWAN/Digitizer*	*SmartCard*
795g	822g	795g	822g	*855g*
1.75 lb	1.81 lb	1.75 lb	1.81 lb	1.88 lb

Keyboard weight
Ultrabook Pro Keyboard: 900g/1.98 lb
Ultrabook Keyboard: 560g/1.23 lb

Case color
Graphite black

Case material
PC/ABS (Acrylonitrile-Butadiene-Styrene), and Aluminum

Multicard reader
Support micro SD (2G max), micro SDHC (32G max), micro SDXC (64G max)

Tablet ports
One USB 3.0 (one Always On), micro HDMI, micro SD, Micro SIM, Dock connector

Camera
Front camera: 2.0-megapixel, 1080p resolution, fixed focus
Rear camera: 5.0-megapixel, 1080p resolution, auto focus

Audio support
HD Audio, Realtek® ALC286-VC codec, stereo speakers, 0.7W x 2 / three microphones, combo audio/mic jack

Control buttons
Windows button, Power button, volume button, rotation lock switch, reset switch

Keyboard *(optional)*
Pro: Ultrabook Pro Keyboard, (Battery keyboard)6-row, TrackPoint® pointing device, MultiTouch with 3+2 buttons click pad, security keyhole, one USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 26Wh), 36-watt AC adapter can charge both the Tablet battery and Keyboard battery, pen holder, backlight
Non-pro: Ultrabook Keyboard, (Mechanical keyboard) 6-row, touchpad w/ 2 integrated buttons, one USB 2.0, pen holder
Folio: Folio Keyboard, thin keyboard, no ports, pen holder

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Optional: Trusted Platform Module, TCG 1.2-compliant

vPro
Optional: Intel vPro Technology

Fingerprint reader
Fingerprint reader

NFC
Optional: Near Field Communication

Smart Cover
Optional: Quickshot cover

Tablet battery
Integrated Li-Polymer 2-cell (35Wh)

Keyboard battery
Li-Polymer 4-cell (26Wh)

Battery - life

Battery configuration	*2-cell*	*2-cell + 4-cell*
Battery life	8 hr	12 hr

AC adapter
36-watt AC adapter

Preload
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
- Lenovo Support
- Lenovo Companion
- ThinkVantage System Update
- Lenovo Reach
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

Some: Windows 10 Pro 64
- Lenovo Solution Center
- Lenovo Companion
- Lenovo REACHit
- Lenovo SHAREit
- Microsoft® Office preloaded; purchase a product key to activate
- McAfee LiveSafe (30 days of virus definitions)

Limited warranty
One of the following, configurable by model:
- 1-year - depot repair service / service upgrades available
- 3-year - depot repair service / service upgrades available

Mil-Spec test
MIL-STD-810G military certification

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

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