Lenovo

Lenovo ThinkPad Helix Intel® Core™ i7 i7-3667U Laptop 29,5 cm (11.6") Touchscreen Full HD 8 GB DDR3-SDRAM 256 GB SSD Windows 8 Pro English Black

Brand : Lenovo   **Product family:** ThinkPad   **Article code:** 37023SU

Product name : Helix

Lenovo ThinkPad Helix. Product type: Laptop, Form factor: Convertible (Detachable). Processor family: Intel® Core™ i7, Processor model: i7-3667U, Processor frequency: 2 GHz. Display diagonal: 29,5 cm (11.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels, Touchscreen. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. Operating system installed: Windows 8 Pro. Product color: Black

Design	
Product type *	Laptop
Product color *	Black
Form factor *	Convertible (Detachable)

Display	
Touchscreen type	Capacitive
Display diagonal *	29,5 cm (11.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✔
HD type	Full HD
Touch technology	Multi-touch
Display number of colors	16.78 million colours
LED backlight	✔
Native aspect ratio	16:9
Display brightness	400 cd/m²

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	3rd gen Intel® Core™ i7
Processor model *	i7-3667U
Processor cores	2
Processor threads	4
Processor boost frequency	3,2 GHz
Processor frequency *	2 GHz
System bus rate	5 GT/s
Processor cache	4 MB
Processor cache type	Smart Cache
Processor socket	BGA 1023
Processor lithography	22 nm

Software	
Operating system architecture	64-bit
Operating system installed *	Windows 8 Pro

Processor special features	
Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® Small Business Advantage (Intel® SBA)	✘
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✘
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✔
Intel Enhanced Halt State	✔

Processor

Processor operating modes	64-bit
Processor series	Intel Core i7-3600 Mobile series
Processor codename	Ivy Bridge
Bus type	DMI
FSB Parity	✗
Stepping	L1
Thermal Design Power (TDP)	17 W
Tjunction	105 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x8, 1x16, 2x4, 2x8
CPU multiplier (bus/core ratio)	20
ECC supported by processor	✗

Memory

Internal memory *	8 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1333 MHz
Memory form factor	On-board
Memory layout (slots x size)	1 x 8 GB
Maximum internal memory *	8 GB

Storage

Total storage capacity *	256 GB
Storage media *	SSD
HDD capacity	0 GB
Number of SSDs installed	1
SSD capacity	256 GB
SSD interface	Micro SATA III
Optical drive type *	✗

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✗
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4000
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
On-board graphics card ID	0x166

Audio

Audio system	Dolby Home Theater v4
Number of built-in speakers	2
Built-in microphone	✔

Camera

Front camera resolution (numeric)	2 MP
Front camera resolution	1920 x 1080 pixels
Auto focus	✔
Rear camera	✔
Rear camera resolution (numeric)	5 MP

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✗
Bluetooth	✔
Bluetooth version	4.0
Near Field Communication (NFC)	✔

Processor special features

Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗
Intel® Secure Key	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	31 x 24 mm
Supported instruction sets	AVX
Processor code	SR0N5
CPU configuration (max)	1
Embedded options available	✗
Graphics & IMC lithography	22 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1,00
Intel Secure Key Technology version	1,00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✔
Processor ARK ID	64898
Conflict-Free processor	✔
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	3+4
Battery life (max)	10 h

Power

AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	3,42 A
AC adapter output voltage	19 V
Power auto-sensing	✔
DC-in jack	✔

Security

Cable lock slot	✗
Fingerprint reader	✗
Password protection type	✔

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Storage temperature (T-T)	-15 - 60 °C
Operating relative humidity (H-H)	10 - 80%
Storage relative humidity (H-H)	10 - 90%
Operating altitude	0 - 3050 m
Non-operating altitude	0 - 4570 m

Certificates

Wi-Fi certified	✔
Compliance certificates	RoHS

Network

WWAN	Not installed
4G WiMAX	✘
4G LTE	✘

Ports & interfaces

USB 2.0 ports quantity *	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Mini DisplayPorts quantity	1
DVI port	✘
Headphone outputs	1
S/PDIF out port	✘
Combo headphone/mic port	✔
Docking connector	✔
ExpressCard slot	✘
CardBus PCMCIA slot type	✘
SmartCard slot	✘
Headphone connectivity	3.5 mm

Keyboard

Pointing device	Clickpad
Numeric keypad *	✘
Island-style keyboard	✔
Full-size keyboard	✔
Keyboard layout	QWERTY
Keyboard language	English

Sustainability

Sustainability certificates	EPEAT Gold, ENERGY STAR

Weight & dimensions

Width	296,1 mm
Depth	187,3 mm
Height	20,4 mm
Weight *	1,7 kg

Packaging content

AC adapter included *	✔
Cables included	AC
Manual	✔
Quick start guide	✔
Warranty card	✔

Other features

LightScribe	✘
Disc types supported	✘
3D	✘
Maximum internal memory (64-bit)	8 GB
Intel segment tagging	Home office, Small Business

Catalog Object Cloud