



Lenovo IdeaPad 320 Intel® Core™ i3 i3-7130U Laptop 39,6 cm (15.6") Full HD 4 GB DDR4-SDRAM 1 TB HDD NVIDIA® GeForce® 940MX FreeDOS Black



Brand : Lenovo

Product family: IdeaPad

Product code: 80XL03P3VN

Product name : 320

Intel Core i3-7130U (2.7GHz, Cache 3MB, 2 Cores), 15.6" Full HD (1920 x 1080), 4GB DDR4, 1000GB HDD, Intel HD Graphics 620 + NVIDIA GeForce 940MX (2GB, GDDR5), WLAN 802.11ac , Bluetooth 4.1, DOS

Lenovo IdeaPad 320. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i3, Processor model: i3-7130U, Processor frequency: 2,7 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 4 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 620. Operating system installed: FreeDOS. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	HDMI ports quantity *	1
Product colour *	Black	Combo headphone/mic port	✓
Form factor *	Clamshell	Keyboard	
Display		Pointing device	Touchpad
Display diagonal *	39.6 cm (15.6")	Numeric keypad *	✓
Display resolution *	1920 x 1080 pixels	Windows keys	✓
Touchscreen *	✗	Software	
HD type	Full HD	Operating system installed *	FreeDOS
Panel type	IPS	Processor special features	
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✓
Native aspect ratio	16:9	Intel® Smart Response Technology	✓
Display brightness	200 cd/m²	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	✗
Processor family *	Intel® Core™ i3	Enhanced Intel SpeedStep Technology	✓
Processor generation	7th gen Intel® Core™ i3	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor model *	i3-7130U	Intel Clear Video Technology	✓
Processor cores	2	Intel® InTru™ 3D Technology	✓
Processor threads	4	Intel® Quick Sync Video Technology	✓
Processor frequency *	2.7 GHz	Intel Flex Memory Access	✓
System bus rate	4 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache	3 MB	Intel Trusted Execution Technology	✗
Processor cache type	Smart Cache	Intel Enhanced Halt State	✓
Processor lithography	14 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes	64-bit	Intel® Secure Key	✓
Processor codename	Kaby Lake	Intel TSX-NI	✗
Bus type	OPI	Intel Stable Image Platform Program (SIPP)	✗
Thermal Design Power (TDP)	15 W	Intel® OS Guard	✓
Configurable TDP-down	7.5 W		
Configurable TDP-down frequency	0.8 GHz		
Tjunction	100 °C		
Maximum number of PCI Express lanes	12		
PCI Express slots version	3.0		
PCI Express configurations	1x2+2x1, 1x4, 2x2, 4x1		
CPU multiplier (bus/core ratio)	1		
ECC supported by processor	✗		

Memory		Processor special features	
Internal memory *	4 GB	Intel Software Guard Extensions (Intel SGX)	✓
Internal memory type	DDR4-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory slots	1x SO-DIMM	Intel 64	✓
Maximum internal memory *	16 GB	Execute Disable Bit	✓
Storage		Idle States	✓
Total storage capacity *	1 TB	Thermal Monitoring Technologies	✓
Storage media *	HDD	Processor package size	42 X 24 mm
Number of HDDs installed	1	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD capacity	1 TB	CPU configuration (max)	1
HDD interface	SATA III	Intel Virtualization Technology for Directed I/O (VT-d)	✓
HDD size	2.5"	Intel Identity Protection Technology version	1.00
Card reader integrated	✓	Intel Smart Response Technology version	1.00
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel Stable Image Platform Program (SIPP) version	0.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	NVIDIA® GeForce® 940MX	Intel TSX-NI version	0.00
Discrete graphics card memory	2 GB	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory type	GDDR5	Processor ARK ID	124977
On-board graphics card *	✓	Conflict-Free processor	✓
Discrete graphics card *	✓	Battery	
On-board graphics card family	Intel® HD Graphics	Battery technology	Lithium Polymer (LiPo)
On-board graphics card model *	Intel® HD Graphics 620	Number of battery cells	2
On-board graphics card base frequency	300 MHz	Power	
On-board graphics card dynamic frequency (max)	1000 MHz	DC-in jack	✓
Maximum on-board graphics card memory	32 GB	Security	
On-board graphics card DirectX version	12.0	Cable lock slot	✓
On-board graphics card OpenGL version	4.4	Trusted Platform Module (TPM)	✗
On-board graphics card ID	0x5916	Password protection	✓
		Password protection type	HDD, Power on, Supervisor
Audio		Certificates	
Audio system	Dolby Audio	Compliance certificates	RoHS
Speaker power	1.5 W	Sustainability	
Built-in microphone	✓	Sustainability certificates	EPEAT Silver, ENERGY STAR
Camera		Weight & dimensions	
Front camera	✓	Width	378 mm
Network		Depth	260 mm
Wi-Fi	✓	Height	22.9 mm
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Weight *	2.2 kg
Ethernet LAN	✓	Packaging content	
Bluetooth	✓	AC adapter included *	✓
Bluetooth version	4.1	Manual	✓
Ports & interfaces		Other features	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	3D	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Maximum internal memory (64-bit)	16 GB
Ethernet LAN (RJ-45) ports	1		

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