



Lenovo ThinkPad Edge E531 Intel® Core™ i3 i3-2348M Laptop 39.6 cm (15.6") Full HD 2 GB DDR3-SDRAM 320 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: 68855YU

Product name : E531

Intel Core i3-2348M (3M Cache, 2.30 GHz), 2GB DDR3 1600MHz RAM, 320GB 7200RPM SATA HDD, DVD+/-RW, 15.6" LED THT HD 1366x768, Intel HD 3000, 802.11bgn, Bluetooth 4.0, Gigabit Ethernet, USB 3.0, HDMI, Windows 7 Professional 64 /Windows 8 Pro 64 bit
Lenovo ThinkPad Edge E531. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i3, Processor model: i3-2348M, Processor frequency: 2.3 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1366 x 768 pixels. Internal memory: 2 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 320 GB, Storage media: HDD, Optical drive type: DVD±RW. Operating system installed: Windows 7 Professional. Product colour: Black



Design		Ports & interfaces	
Product type *	Laptop	Headphone outputs	1
Product colour *	Black	S/PDIF out port	✗
Form factor *	Clamshell	Microphone in	✓
Display		Line-in	✗
Display diagonal *	39.6 cm (15.6")	Combo headphone/mic port	✗
Display resolution *	1366 x 768 pixels	Docking connector	✓
Touchscreen *	✗	ExpressCard slot	✓
HD type	Full HD	CardBus PCMCIA slot type	✗
LED backlight	✓	SmartCard slot	✓
Native aspect ratio	16:9	Headphone connectivity	3.5 mm
Processor		Microphone connectivity	3.5 mm
Processor manufacturer *	Intel	Performance	
Processor family *	Intel® Core™ i3	Motherboard chipset	Intel HM77 Express
Processor generation	2nd gen Intel® Core™ i3	Keyboard	
Processor model *	i3-2348M	Pointing device	Touchpad
Processor cores	2	Numeric keypad *	✓
Processor threads	4	Software	
Processor frequency *	2.3 GHz	Operating system architecture	64-bit
System bus rate	5 GT/s	Recovery operating system	Windows 8 Pro
Processor cache	3 MB	Operating system installed *	Windows 7 Professional
Processor cache type	Smart Cache	Processor special features	
Processor lithography	32 nm	Intel® Wireless Display (Intel® WiDi)	✓
Processor operating modes	64-bit	Intel® My WiFi Technology (Intel® MWT)	✓
Processor series	Intel Core i3-2300 Mobile Series	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor codename	Sandy Bridge	Intel® Identity Protection Technology (Intel® IPT)	✓
Bus type	DMI	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Thermal Design Power (TDP)	35 W	Intel® Turbo Boost Technology	✗
Maximum number of PCI Express lanes	16	Intel® Small Business Advantage (Intel® SBA)	✓
PCI Express slots version	2.0	Enhanced Intel SpeedStep Technology	✓
PCI Express configurations	1x16, 1x8+2x4, 2x8		
ECC supported by processor	✗		
Memory			
Internal memory *	2 GB		
Internal memory type	DDR3-SDRAM		
Memory clock speed	1600 MHz		

Memory		Processor special features	
Memory layout (slots x size)	1 x 2 GB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory slots	2x SO-DIMM	Intel® InTru™ 3D Technology	✓
Maximum internal memory *	16 GB	Intel® Quick Sync Video Technology	✓
Storage		Intel Flex Memory Access	✓
Total storage capacity *	320 GB	Intel® AES New Instructions (Intel® AES-NI)	✗
Storage media *	HDD	Intel Trusted Execution Technology	✗
Number of HDDs installed	1	Intel VT-x with Extended Page Tables (EPT)	✓
HDD capacity	320 GB	Intel Demand Based Switching	✗
HDD interface	SATA II	Intel 64	✓
HDD speed	7200 RPM	Execute Disable Bit	✓
HDD size	2.5"	Idle States	✓
Optical drive type *	DVD±RW	Thermal Monitoring Technologies	✓
Card reader integrated	✓	Supported instruction sets	AVX
Compatible memory cards	MMC, SD, SDHC, SDXC	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	Not available	Intel Virtualization Technology for Directed I/O (VT-d)	✗
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✗	Intel FDI Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel Fast Memory Access	✓
On-board graphics card model *	Intel® HD Graphics 3000	Processor ARK ID	74542
On-board graphics card base frequency	650 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Integrated 4G WiMAX	✓
Audio		Battery	
Audio system	HD	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Number of battery cells	6
Speaker power	1.5 W	Battery capacity *	48 Wh
Built-in microphone	✓	Power	
Camera		AC adapter frequency	50 - 60 Hz
Front camera resolution (numeric)	1 MP	DC-in jack	✓
Front camera resolution	1280 x 720 pixels	Security	
Network		Cable lock slot	✓
Wi-Fi	✓	Cable lock slot type	Kensington
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Fingerprint reader	✓
Ethernet LAN	✓	Trusted Platform Module (TPM)	✗
Ethernet LAN data rates	10,100,1000 Mbit/s	Weight & dimensions	
Bluetooth	✓	Width	377 mm
Bluetooth version	4.0	Depth	250 mm
Cabling technology	10/100/1000Base-T(X)	Height	25 mm
Ports & interfaces		Weight *	2.44 kg
USB 2.0 ports quantity *	1	Other features	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	LightScribe	✗
Ethernet LAN (RJ-45) ports	1	Swivel webcam	✗
HDMI ports quantity *	1	Intel segment tagging	Home office, Small Business
DVI port	✗		
Mini DisplayPort/Thunderbolt combo port	✗		
VGA (D-Sub) ports quantity	1		
LAN/VGA combo port	✗		

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