



Lenovo ThinkPad T431s Intel® Core™ i7 i7-3687U Laptop 35.6 cm (14") HD+ 4 GB DDR3-SDRAM 180 GB SSD Windows 8 Pro Black

Brand : Lenovo

Product family: ThinkPad

Product code: 20AC000DUS

Product name : T431s

Intel Core i7-3687U (4M Cache, 2.10 GHz), 14" HD+ (1600x900), 4GB DDR3, 180GB SSD, Intel HD Graphics 4000, 720p HD webcam, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth 4.0, Windows 8 Pro 64 bit

Lenovo ThinkPad T431s Intel® Core™ i7 i7-3687U Laptop 35.6 cm (14") HD+ 4 GB DDR3-SDRAM 180 GB SSD Windows 8 Pro Black:

THE CORPORATE STANDARD GOES EXECUTIVE LEVEL

With carbon fiber reinforcement for durability, a newly enhanced keyboard optimized for Windows 8, and introducing the ThinkPad 5-point TrackPad, the T431s Ultrabook™ delivers premium features.

- ThinkPad Precision Keyboard with optional backlight
- Dolby® Home Theater® v4
- Intel® vPro™
- Roll-cage technology, a collection of durability features that add extra strength and rigidity to the magnesium bottom shell and carbon fiber top cover
- Bottom mechanical docking compatible with Lenovo ThinkPad Series 3 Docks
- Integrated 720p HD webcam with face tracking
- WWAN 3G/4G
- 30-day standby mode
- 2x USB 3.0, mini DisplayPort, VGA, 4-in-1 card reader, optional smart card reader, Ethernet RJ45, 3.5mm combo jack headphone/mic



Design		Ports & interfaces	
Product type *	Laptop	ExpressCard slot	✗
Product colour *	Black	CardBus PCMCIA slot type	✗
Form factor *	Clamshell	Keyboard	
Housing material	Carbon fibre, Magnesium	Pointing device	Touchpad + Pointing Stick
Display		Numeric keypad *	✗
Display diagonal *	35.6 cm (14")	Software	
Display resolution *	1600 x 900 pixels	Operating system architecture	64-bit
Touchscreen *	✗	Operating system installed *	Windows 8 Pro
HD type	HD+	Processor special features	
LED backlight	✓	Intel Wireless Display (WiDi) Technology	✓
Native aspect ratio	16:9	Intel My WiFi Technology	✓
Processor		Intel Anti-Theft Technology	✓
Processor manufacturer *	Intel	Intel Identity Protection Technology	✓
Processor family *	Intel® Core™ i7	Intel Hyper-Threading Technology	✓
Processor generation	3rd gen Intel® Core™ i7	Intel Turbo Boost Technology	2.0
Processor *	i7-3687U	Intel® Small Business Advantage (Intel® SBA)	✗
Processor number of cores	2	Enhanced Intel SpeedStep Technology	✓
Processor threads	4	Intel Clear Video HD Technology	✓
Processor boost frequency	3.3 GHz	Intel Clear Video Technology	✗
Processor frequency *	2.1 GHz	Intel® InTru™ 3D Technology	✓
System bus data transfer rate	5 GT/s	Intel® Insider™	✓
Processor cache	4 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel Flex Memory Access	✓
Processor socket	BGA 1023		
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-3600 Mobile series		
Processor codename	Ivy Bridge		

Processor		Processor special features	
Bus type	DMI	Intel® Smart Cache	✓
FSB Parity	✗	Intel AES New Instructions	✓
Stepping	L1	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	17 W	Intel Enhanced Halt State	✓
Tjunction	105 °C	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	16	Intel Demand Based Switching	✗
PCI Express slots version	2.0	Intel® Secure Key	✓
PCI Express configurations	1x8, 1x16, 2x4, 2x8	Intel Clear Video Technology for MID	✗
CPU multiplier (bus/core ratio)	21	Intel 64	✓
ECC supported by processor	✗	Execute Disable Bit	✓
Memory		Idle States	✓
Internal memory *	4 GB	Thermal Monitoring Technologies	✓
Internal memory type	DDR3-SDRAM	Processor package size	31.0 x 24.0 (BGA1023)
Memory form factor	On-board + SO-DIMM	Supported instruction sets	AVX
Memory slots	1x SO-DIMM	Processor code	SR0XH
Memory, maximum *	12 GB	CPU configuration (max)	1
Storage		Embedded options available	✗
Total storage capacity *	180 GB	Graphics & IMC lithography	22 nm
Storage media *	SSD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of SSDs installed	1	Intel Identity Protection Technology version	1.00
Solid-state drive capacity	180 GB	Intel Secure Key Technology version	1.00
Optical drive *	✗	Intel Virtualization Technology (VT-x)	✓
Card reader integrated	✓	Intel Dual Display Capable Technology	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	Intel FDI Technology	✓
Graphics		Intel Rapid Storage Technology	✗
Discrete graphics card model *	Not available	Intel Fast Memory Access	✓
On-board graphics card *	✓	Processor ARK ID	71258
Discrete graphics card *	✗	Conflict-Free processor	✓
On-board graphics card family	Intel® HD Graphics	Integrated 4G WiMAX	✓
On-board graphics card model *	Intel® HD Graphics 4000	Battery	
On-board graphics card base frequency	350 MHz	Battery technology	Lithium Polymer (LiPo)
On-board graphics card dynamic frequency (max)	1200 MHz	Number of battery cells	3
On-board graphics card ID	0x166	Battery capacity *	47 Wh
Audio		Battery life (max)	9 h
Audio system	Dolby Home Theater v4	Power	
Built-in microphone	✓	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✓
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight & dimensions	
Ethernet LAN connection	✓	Width	331 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth	226 mm
Bluetooth	✓	Height	20.6 mm
Bluetooth version	4.0	Weight *	1.63 kg
Ports & interfaces		Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	AC adapter included *	✓
Ethernet LAN (RJ-45) ports	1	Other features	
Mini DisplayPorts quantity	1	LightScribe	✗
DVI port	✗	Intel segment tagging	Home office, Small Business
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		

Ports & interfaces

Docking connector 

Catalog Object Cloud



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