Lenovo ThinkPad Edge 15 Intel® Core™ i5 i5-480M 38,1 cm (15") 4 GB DDR3-SDRAM 320 GB Intel® HD Graphics Windows 7 Professional Hitam

Brand : Lenovo　　　　**Product family:** ThinkPad　　　　**Product code:** 0301JDU

Product name : 15

Lenovo ThinkPad Edge 15. Keluarga pemproses: Intel® Core™ i5, Model pemproses: i5-480M, Frekuensi pemproses: 2,66 GHz. Pepenjuru paparan: 38,1 cm (15"), Resolusi paparan: 1366 x 768 piksel. Memori dalaman: 4 GB, Jenis memori dalaman: DDR3-SDRAM. Kapasiti keseluruhan storan: 320 GB, Jenis pemacu gentian kaca: DVD-RW. Model penyesuai grafik papan ibu: Intel® HD Graphics, Model penyesuai grafik penuh: Intel® HD Graphics. Sistem operasi yang dipasang: Windows 7 Professional. Product color: Hitam. Berat: 2,5 kg

Design

Product colour *	Black

Display

Display diagonal *	38.1 cm (15")
Display resolution *	1366 x 768 pixels
LED backlight	✔
Native aspect ratio	16:9
Display brightness	220 cd/m²
Contrast ratio (typical)	500:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	4th gen Intel® Core™ i5
Processor model *	i5-480M
Processor cores	2
Processor threads	4
Processor boost frequency	2.93 GHz
Processor frequency *	2.66 GHz
System bus rate	2.5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	BGA 1288
Processor lithography	32 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-400 Series
Processor codename	Arrandale
Bus type	DMI
FSB Parity	✗
Stepping	K0
Thermal Design Power (TDP)	35 W
Tjunction	105 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0

Keyboard

Pointing device	ThinkPad UltraNav

Software

Operating system architecture	64-bit
Drivers included	✔
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Wireless Display (Intel® WiDi)	✗
Intel® My WiFi Technology (Intel® MWT)	✗
Intel® Anti-Theft Technology (Intel® AT)	✗
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	1.0
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	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗

Processor

PCI Express configurations	1x16
Number of Processing Die Transistors	382 M
Processing Die size	81 mm²
CPU multiplier (bus/core ratio)	20
ECC supported by processor	✗

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1066 MHz
Memory slots	2x SO-DIMM
Maximum internal memory *	8 GB

Storage

Total storage capacity *	320 GB
Number of HDDs installed	1
HDD interface	SATA
HDD speed	5400 RPM
Optical drive type *	DVD-RW
Card reader integrated	✔
Compatible memory cards	Memory Stick (MS), MiniSDHC, MMC, MS PRO, SDHC, xD

Graphics

Discrete graphics card model *	Intel® HD Graphics
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics
On-board graphics card base frequency	500 MHz
On-board graphics card dynamic frequency (max)	766 MHz
Maximum resolution	2048 x 1536 pixels

Audio

Audio system	Realtek ALC269
Number of built-in speakers	2
Speaker power	1.5 W

Network

Wi-Fi	✔
Networking features	Gigabit Ethernet
Ethernet LAN	✔
Bluetooth	✔
Bluetooth version	2.1+EDR
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	3
eSATA/USB 2.0 ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✗
VGA (D-Sub) ports quantity	1
Headphone outputs	1
S/PDIF out port	✗
Microphone in	✔
Docking connector	✗
ExpressCard slot	✔
CardBus PCMCIA slot type	✗

Processor special features

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	rPGA 37.5x 37.5, BGA 34x28
Supported instruction sets	SSE4.1, SSE4.2
Processor code	SLC26
Physical Address Extension (PAE)	✔
Physical Address Extension (PAE)	36 bit
CPU configuration (max)	1
Embedded options available	✗
Graphics & IMC lithography	45 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✗
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✗
Intel Fast Memory Access	✔
Processor ARK ID	52952
Conflict-Free processor	✗

Battery

Number of battery cells	6
Battery life (max)	4.5 h

Power

DC-in jack	✔

Security

Cable lock slot	✗
Fingerprint reader	✔
Password protection type	HDD, Supervisor

Certificates

Certification	RoHS

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	380 mm
Depth	247 mm
Height (front)	3.23 cm
Height (rear)	3.75 cm
Weight *	2.5 kg

Packaging content

AC adapter included *	✔

Other features

Infrared data port	✗
Graphics card family	Intel
Type	PC
Display	LCD
Power supply type	AC - DC

Ports & interfaces	
SmartCard slot	✗
Performance	
Motherboard chipset	Intel® HM55 Express