Lenovo ThinkPad L412 Intel® Core™ i3 i3-370M 35,6 cm (14") 2 GB DDR3-SDRAM 160 GB Intel® HD Graphics Windows 7 Professional Black

Brand : Lenovo   **Product family:** ThinkPad   **Product code:** 05537YU

Product name : L412

Intel Core i3-370M(2.4GHz), 2GB RAM, 160GB 7200rpm HD, 14.1in 1366x768 LCD, Intel HD Graphics, CDRW/DVDRW, Intel 802.11agn wireless, WWAN option, Bluetooth, 1Gb Ethernet, UltraNav, Secure Chip, Fingerprint reader, Camera, 6c Li-Ion, Windows 7 Professional 64
Lenovo ThinkPad L412. Processor family: Intel® Core™ i3, Processor model: i3-370M, Processor frequency: 2,4 GHz. Display diagonal: 35,6 cm (14"), Display resolution: 1366 x 768 pixels. Internal memory: 2 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 160 GB, Optical drive type: DVD-RW. On-board graphics card model: Intel® HD Graphics, Discrete graphics card model: Intel® HD Graphics. Operating system installed: Windows 7 Professional. Product colour: Black. Weight: 2,32 kg

Design

Product colour *	Black
Housing material	Plastic

Display

Display diagonal *	35,6 cm (14")
Display resolution *	1366 x 768 pixels
LED backlight	✔
Native aspect ratio	16:9
Display surface	Gloss
Dual-screen	✘
Contrast ratio (typical)	500:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i3
Processor generation	Intel® Core™ i3
Processor model *	i3-370M
Processor cores	2
Processor threads	4
Processor frequency *	2,4 GHz
System bus rate	2,5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	Socket 988
Processor lithography	32 nm
Processor operating modes	64-bit
Processor series	Intel Core i3-300 Mobile Series
Processor codename	Arrandale
Bus type	DMI
FSB Parity	✘
Stepping	K0
Thermal Design Power (TDP)	35 W
Tjunction	90 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x16
Number of Processing Die Transistors	382 M
Processing Die size	81 mm²
CPU multiplier (bus/core ratio)	18
ECC supported by processor	✘

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	✘
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	✘
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	SLBUK

Memory

Internal memory *	2 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1333 MHz
Memory layout (slots x size)	1 x 2 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	8 GB

Storage

Total storage capacity *	160 GB
Number of HDDs installed	1
HDD capacity	160 GB
HDD interface	SATA
HDD speed	7200 RPM
Optical drive type *	DVD-RW
Card reader integrated	✔
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, 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)	667 MHz

Audio

Audio system	HDA
Number of built-in speakers	2
Speaker power	1,5 W
Built-in subwoofer	✘

Network

Wi-Fi	✔
Networking features	1Gb Ethernet
Ethernet LAN	✔
Bluetooth	✔
Bluetooth version	2.1+EDR
WWAN	Installed
Data network	Not supported
Cabling technology	10/100/1000Base-T(X)
4G WiMAX	✘

Ports & interfaces

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

Processor special features

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	49020
Conflict-Free processor	✘

Battery

Number of battery cells	6
Battery life (max)	4,7 h

Power

DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Fingerprint reader	✔
Trusted Platform Module (TPM)	✔
Password protection type	BIOS

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Storage temperature (T-T)	5 - 43 °C
Operating relative humidity (H-H)	8 - 95%
Storage relative humidity (H-H)	5 - 95%
Operating altitude	0 - 3048 m

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	344 mm
Depth	233 mm
Height (front)	3,2 cm
Height (rear)	3,6 cm
Weight *	2,32 kg

Packaging content

AC adapter included *	✔
Remote control included	✘

Other features

Infrared data port	✘
Graphics card family	Intel
Type	PC
Display	LCD
Power requirements	130/230 V
TV-in port	✘
Internal modem	✘
TV tuner integrated	✘
Intel segment tagging	Home office, Small Business

Ports & interfaces	
TV-out	✖
Performance	
Motherboard chipset	Intel® HM55 Express
Keyboard	
Pointing device	ThinkPad UltraNav
Full-size keyboard	✖

Ports & interfaces

TV-out ✖

Catalog Object Cloud