



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		Software	
Product colour *	Black	Operating system architecture	64-bit
Housing material	Plastic	Drivers included	✓
Display		Operating system installed *	Windows 7 Professional
Display diagonal *	35,6 cm (14")	Processor special features	
Display resolution *	1366 x 768 pixels	Intel® Wireless Display (Intel® WiDi)	✗
LED backlight	✓	Intel® My WiFi Technology (Intel® MWT)	✗
Native aspect ratio	16:9	Intel® Anti-Theft Technology (Intel® AT)	✗
Display surface	Gloss	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Dual-screen	✗	Intel® Turbo Boost Technology	✗
Contrast ratio (typical)	500:1	Enhanced Intel SpeedStep Technology	✓
Processor		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor manufacturer *	Intel	Intel Clear Video Technology	✓
Processor family *	Intel® Core™ i3	Intel® InTru™ 3D Technology	✗
Processor generation	Intel® Core™ i3	Intel® Insider™	✗
Processor model *	i3-370M	Intel® Quick Sync Video Technology	✗
Processor cores	2	Intel Flex Memory Access	✓
Processor threads	4	Intel® Smart Cache	✓
Processor frequency *	2,4 GHz	Intel® AES New Instructions (Intel® AES-NI)	✗
System bus rate	2,5 GT/s	Intel Trusted Execution Technology	✗
Processor cache	3 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	Socket 988	Intel Demand Based Switching	✗
Processor lithography	32 nm	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Processor operating modes	64-bit	Intel 64	✓
Processor series	Intel Core i3-300 Mobile Series	Execute Disable Bit	✓
Processor codename	Arrandale	Idle States	✓
Bus type	DMI	Thermal Monitoring Technologies	✓
FSB Parity	✗	Processor package size	rPGA 37.5x 37.5, BGA 34x28
Stepping	K0	Supported instruction sets	SSE4.1, SSE4.2
Thermal Design Power (TDP)	35 W	Processor code	SLBUK
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 mm ²		
CPU multiplier (bus/core ratio)	18		
ECC supported by processor	✗		

Memory		Processor special features	
Internal memory *	2 GB	Physical Address Extension (PAE)	✓
Internal memory type	DDR3-SDRAM	Physical Address Extension (PAE)	36 bit
Memory clock speed	1333 MHz	CPU configuration (max)	1
Memory layout (slots x size)	1 x 2 GB	Embedded options available	✗
Memory slots	2x SO-DIMM	Graphics & IMC lithography	45 nm
Maximum internal memory *	8 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Storage		Intel Virtualization Technology (VT-x)	✓
Total storage capacity *	160 GB	Intel Dual Display Capable Technology	✓
Number of HDDs installed	1	Intel FDI Technology	✓
HDD capacity	160 GB	Intel Rapid Storage Technology	✗
HDD interface	SATA	Intel Fast Memory Access	✓
HDD speed	7200 RPM	Processor ARK ID	49020
Optical drive type *	DVD-RW	Conflict-Free processor	✗
Card reader integrated	✓	Battery	
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC, xD	Number of battery cells	6
Graphics		Battery life (max)	4,7 h
Discrete graphics card model *	Intel® HD Graphics	Power	
On-board graphics card *	✓	DC-in jack	✓
Discrete graphics card *	✓	Security	
On-board graphics card family	Intel® HD Graphics	Cable lock slot	✓
On-board graphics card model *	Intel® HD Graphics	Cable lock slot type	Kensington
On-board graphics card base frequency	500 MHz	Fingerprint reader	✓
On-board graphics card dynamic frequency (max)	667 MHz	Trusted Platform Module (TPM)	✓
Audio		Password protection type	BIOS
Audio system	HDA	Operational conditions	
Number of built-in speakers	2	Operating temperature (T-T)	5 - 35 °C
Speaker power	1,5 W	Storage temperature (T-T)	5 - 43 °C
Built-in subwoofer	✗	Operating relative humidity (H-H)	8 - 95%
Network		Storage relative humidity (H-H)	5 - 95%
Wi-Fi	✓	Operating altitude	0 - 3048 m
Networking features	1Gb Ethernet	Sustainability	
Ethernet LAN	✓	Sustainability certificates	ENERGY STAR
Bluetooth	✓	Weight & dimensions	
Bluetooth version	2.1+EDR	Width	344 mm
WWAN	Installed	Depth	233 mm
Data network	Not supported	Height (front)	3,2 cm
Cabling technology	10/100/1000Base-T(X)	Height (rear)	3,6 cm
4G WiMAX	✗	Weight *	2,32 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	3	AC adapter included *	✓
eSATA/USB 2.0 ports quantity	1	Remote control included	✗
Ethernet LAN (RJ-45) ports	1	Other features	
DisplayPorts quantity	1	Infrared data port	✗
DVI port	✗	Graphics card family	Intel
VGA (D-Sub) ports quantity	1	Type	PC
Headphone outputs	1	Display	LCD
S/PDIF out port	✗	Power requirements	130/230 V
Microphone in	✓	TV-in port	✗
Line-in	✗	Internal modem	✗
Docking connector	✗	TV tuner integrated	✗
ExpressCard slot	✓	Intel segment tagging	Home office, Small Business
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		

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

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