## Lenovo.

## Lenovo ThinkPad Edge E420 Intel® Core™ i5 i5-2430M 35.6 cm (14") 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: 1141DAS

Product name : E420

E420 - Intel Core i5-2430M (3M Cache, 2.40 GHz), 4GB DDR3, 500GB HDD, DVD-RW, 14" 16:9 1366x768 LED backlit, Intel HD Graphics 3000, Bluetooth 3.0, Gigabit Ethernet, 802.11 b/g/n, 2100g, Black, Windows 7 Professional

Lenovo ThinkPad Edge E420. Processor family: Intel® Core™ i5, Processor model: i5-2430M, Processor frequency: 2.4 GHz. Display diagonal: 35.6 cm (14"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD-RW. On-board graphics card model: Intel® HD Graphics 3000. Operating system installed: Windows 7 Professional. Product colour: Black. Weight: 2.1 kg

Design		Software	
Product colour *	Black	Operating system architecture	64-bit
Display		Drivers included	1
Display diagonal *	35.6 cm (14")	Operating system installed *	Windows 7 Professional
Display resolution *	1366 x 768 pixels	Processor special features	
LED backlight		Intel® Wireless Display (Intel®	
Native aspect ratio	16:9	WiDi)	1
Processor		Intel® My WiFi Technology (Intel® MWT)	✓
Processor manufacturer *	Intel	Intel® Anti-Theft Technology	1
Processor family *	Intel® Core™ i5	(Intel® AT)	
Processor generation	2nd gen Intel® Core <sup>™</sup> i5	Intel® Identity Protection Technology (Intel® IPT)	1
Processor model *	i5-2430M	Intel® Hyper Threading Technology	
Processor cores	2	(Intel® HT Technology)	v
Processor threads	4	Intel® Turbo Boost Technology	2.0
Processor boost frequency Processor frequency *	3 GHz 2.4 GHz	Enhanced Intel SpeedStep Technology	1
System bus rate	5 GT/s	Intel® Clear Video HD Technology	
Processor cache	3 MB	(Intel® CVT HD)	1
Processor cache type	Smart Cache	Intel Clear Video Technology	×
Processor socket	Socket 988	Intel® InTru™ 3D Technology	1
Processor lithography	32 nm	Intel® Insider™	1
Processor operating modes	64-bit	Intel® Quick Sync Video Technology	1 4
Processor series	Intel Core i5-2400 Mobile Series	Intel Flex Memory Access	
Processor codename	Sandy Bridge	Intel® Smart Cache	
Bus type	DMI	Intel® AES New Instructions (Intel®	
FSB Parity	×	AES-NI)	4
Stepping	J1	Intel Trusted Execution Technology	×
Thermal Design Power (TDP)	35 W	Intel Enhanced Halt State	1
Tjunction	100 °C	Intel VT-x with Extended Page	1
Maximum number of PCI Express lanes	16	Tables (EPT)	
PCI Express slots version	2.0	Intel Demand Based Switching	×
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel <sup>®</sup> Clear Video Technology for Mobile Internet Devices (Intel CVT	×
CPU multiplier (bus/core ratio)	24	for MID)	<u>^</u>
ECC supported by processor	×	Intel 64	1
Memory		Execute Disable Bit	1
Internal memory *	4 GB	Idle States	1
Internal memory type	DDR3-SDRAM	Thermal Monitoring Technologies	1
Memory clock speed	1333 MHz		



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StorageJournal of the storageJournal of the storageJournal of the storageStorage mediaH0DProcessor codeStorageStorage mediaH0DProcessor codeStorageNumber of H0Ds installed1Embedded options availableZumH0D capacity500 GBStorage mediaZumH0D tapacity500 GBStorageZumH0D tapacity500 GBStorageZumH0D tapacity500 GBStorageZumH0D tapacityStorageHold Visualization TechnologyJourageH0D speedVisualization TechnologyProcessor Atk HoldJourageContraditive programVisualization TechnologyJourageJourageCompatible memoryMedia HD GraphicsIntel Apid Storage TechnologyJourageOn-board graphics card modeIntel HD GraphicsIntel Fabid StorageJourageConduct responseXumeran de StorageJourageJourageProcessor XK IDIntel Fabid StorageJourageJourageOn-board graphics cardIntel HD GraphicsIntel Fabid MonorageJourageConduct respo	-	8 GB	Processor nackade size	37.5x37.5 (rPGA988B); 31 x 24
Test generationSubported moducion statesAdvance of HODStorage media *HODCPU configuration max)1Storage media *HODCPU configuration max)2HOD statelide1Embedde donta svaliableXHOD statelideStorage Medide donta svaliableXXHOD statelideStorage Medide donta svaliableXXHOD speedStorage Medide donta svaliableXXHOD speedStorage Medide donta svaliableXXHOD speedStorage Medide donta svaliableXXCompatible memory cardsMMC, MS PRO, SD, SDHC, SDMedide Mithal State TechnologyXCond tasker integratedMC, MS PRO, SD, SDHC, SDMedide Mithal State TechnologyXCombaid graphics card frameMedia MG Graphics Storage TechnologyXXConduct graphics card frameMedia MG Graphics Storage MediaXXOn-board graphics card frameMedia MG Graphics Storage MediaXXOn-board graphics card frameNone of Lulis framework frameXXAddio systemN126Battery technologyXXNone of Lulis in packers200 MithMedia VISAXAddio systemN126Battery technologyXXNone of Lulis in packersGraphics XXXAddio systemN126Battery technologyXXNone of Lulis in packersGraphics XXXAddio systemN126NX<	Storage			
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Optical drive types*DVD-RWVersion for decade minegradeIonCard teader integratedMRC MS PRO, SD, SDHC, MSNon-Secondabile memory cardsMRC MS PRO, SD, SDHC, MSNon-Graduetaer integratedMRC MS PRO, SD, SDHC, MSNeitel Dual Displays CapabileSecondabile memory cardsNon-Graduetaer integratedIntelle HD GraphicsIntel Radi Storage TechnologyXecondabileOn-board graphics card mailIntelle HD Graphics 3000Intel Radi Storage TechnologyXecondabileOn-board graphics card dynamiBiologyProcessor ARK IDMXecondabileProcessor ARK IDMStorage TechnologyXecondabileXecondabileOn-board graphics card dynamiDio Acad Pare Internet Acad Storage TechnologyNon-Processor ARK IDMStorage TechnologyNon-XecondabileOn-board graphics card dynamiDio Acad Pare Internet Acad Storage TechnologyNon-On-board graphics card dynamiDio Acad Pare Internet Acad Storage TechnologyNon-Number of Dublin speakers2SecondabileNon-Audition (Drophice)Acad Pare Internet Acad Storage TechnologyNon-Non-Number of Dublin speakers2SecondabileNon-Non-Number of Dublin speakers2SecondabileNon-Non-Secondabile for (Secondabile)Acadapter Internet Acadapter I	•			<b>^</b>
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On-based graphics and modelIntel® HD GraphicsIntel® HD Graphics	Graphics			✓
Onboard graphics and magnetIntel AB Graphics 2000Intel AB		1	Intel FDI Technology	1
non-bard graphics card base frequency (max)500 MHzProcessor AR ID54350non-bard graphics card U requency (max)200 MHzIntegrated 4G WMXXNon-bard graphics card U on-bard graphics card UNon-Consequency (max)KXAudio scard DND1Battery technologyLibium-Ion (Li-lon)Audio SystemHD one Consequency (max)Son Consequency (max)Son Consequency (max)Mumber of buildin speakes10Battery technologySon Consequency (max)Mumber of buildin speakes2Son Consequency (max)Son Consequency (max)Number of buildin speakes2Consequency (max)Son Consequency (max)Number of buildin speakes2Consequency (max)Son Consequency (max)Networking featuresGoglia themesConsequency (max)Son Consequency (max)Networking featuresGoglia themesSon Consequency (max)Son Consequency (max)Solution2Son Consequency (max)	5	Intel <sup>®</sup> HD Graphics	Intel Rapid Storage Technology	×
frequeryIsou Mit2Conflict-Free processorXPhobard graphics card Joyna1200 MHzIntegrated 4G WIMAXOn-bard graphics card Joyna2100 MHzBatteryAudio systemNIDSattery capacity2200 mAhAudio systemIDSattery capacity2200 mAhNumber of built-in speakers2Cadapter frequency6 hoNumber of built-in speakers2Cadapter frequency0 hoNumber of built-in speakersGalabit Effer frequency0 ho200 mAhNumber of built-in speakersGalabit Effer frequency200 mAh200 mAhSpeakersGalabit Effer frequency200 mAh200 mAh200 mAhSpeakersGalabit Effer frequency200 mAh200 mAh200 mAhSpeakersGalabit Effer frequency200 mAh200 mAh200 mAhSpeakersGal		•	Intel Fast Memory Access	1
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frequery (max)Integrated WinkaIntegrated WinkaIntegra			Conflict-Free processor	×
AudioHotoBattery technologyLithium-Ion (Li-Ion)Audio systemHDBattery capacity2200 mAhNumber of built-in speakers2Battery (remx)6 hBuilt-in microphone-Power-NetworkKCadapter frequency50 - 60 HzNetworking featuresGigabit EthernetDC-in jack-Wi-Fi standards802.11b, 802.11g, Wi-Fi 4 (802.11)Security-Buetoth-Gabel lock slotXNetworking features0.00 - 240 V-Buetoth-Cable lock slotXBuetoth-Cable lock slotXBuetoth version30-HSCable lock slotXCable gots quantity4Height front)230 mmC3B 2.0 ports quantity1Height (front)236 cmC3S 2.0 ports quantity1Height (front)236 cmC4Alog autity1Manal-C4Alog autity1Ac adapter included *-VF JortXAc adapter included *-		1200 MHz	Integrated 4G WiMAX	1
Audio systemHDBattery capacity2200 mAhNumber of built-in speakers2Battery life (max)6 hBuilt-in microphone-Power-NetworkCa dapter frequency50 - 60 Hz-Networking featuresGigabit EthernetDC-in jack-Wi-Fi standards802.11b, 802.11g, Wi-Fi 4 (802.11n)Scurity-Buletooth-Cable lock slot-Buletooth version30+HSScurity-Buletooth version30+HSWift adimensions-Cable Jock slot-200 mAh-Buletooth version30+HSWift adimensions-Cable Jock slotSta Autory S quantity10100/1000Base-T(X)Wifth339 mmCable Jock slotSta Autory S quantity1Height (front)3.3 cmCable Jock slot squantity1DVI port squantity1Ac dapter included *-VGA (D-Sub) ports quantity1Ac dapter included *-VGA (D-Sub) ports quantity1Ac dapter included *-Storper S differenceDVI portXAc dapter included *Itele-inDVI portXAc dapter included *Cargo scalar slotDisplay CMCIA slot typeX <td>On-board graphics card ID</td> <td>0x116</td> <td>Battery</td> <td></td>	On-board graphics card ID	0x116	Battery	
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Name of the interfacePowerBuilcin microsphereiPowerNetworkiAC adapter input voltage50 - 60 HzNetworking featuresGigabit EthernetCalapter input voltage100 - 240 VNetworking featuresGigabit EthernetCalapter input voltage100 - 240 VNetworking featuresGigabit EthernetCalapter input voltageiWi-Fi standardsB02.11b, 802.11g, Wi-Fi 4 (802.11)SecurityiEthernet LANICable lock slot×BluetoothiSi HSSecurityiBluetooth version30+HSSi HS39 mmCabling technology100/1000Base-T(X)Width39 mmDVS 2.0 ports quantity4Height (front)2.8 cmSS 2.0 ports quantity1Height (front)2.8 cmSS 2.0 ports quantity1AC adapter included *2.1 kgDVI port quantity1AC adapter included *2.1 kgDVI port quantity1AC adapter included *-VGA (D-Sub) ports quantity1AC adapter included *-VGA (D-Sub) ports quantity1AC adapter included *-VGA (D-Sub) ports quantity1Manual-VGA (D-Sub) ports quantity1Manual-VGA (D-Sub) ports quantity1Manual-SyPDIF out portXAC adapter included *-Victophone in1MicrosphaneMicrosphane-CardBus PCMCIA slot typeX<	Audio system	HD	Battery capacity	2200 mAh
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Networking featuresGigabit EthernetWi-Fi standards802.11b, 802.11g, Wi-Fi 4 (802.11)SecurityEthernet LAN4Cable lock slot×Bluetooth·Fingerprint reader·Bluetooth version3.0 +HSWeight & dimensions339 mmCabing technology10/100/1000Base-T(X)Weight & dimensions339 mmPorts & interfacesVirth230 mm230 mmUSB 2.0 ports quantity*4Height (front)2.8 cmSATA/USB 2.0 ports quantity*1Weight *3.3 cmEthernet LAN (R)-45) ports1Weight *3.1 kgDVI portXAC adapter included *·VGA (D-Sub) ports quantity*1Act adapter included *·VGA (D-Sub) ports quantity1Manual·Virtophone inXQuick start guide·Virtophone in·Nireless technology802.11 b/g/nLine-in·Mirel data portXCardBus PCMCLA slot typeXGraphics card familyIntel CardBusCardBus PCMCLA slot typeXOrophican card slotK/DCTu-outXOrophican card slotNireless methoderslotNireless methoderslotFireformanceVirtuCompliance industry standardsIntel StandardsNireless methoderslotPointing deviceTutel QM65FireformanceNireless methoderslotNireless methoderslotPointing deviceTutel QM65Tutel QM65Nireless methoderslotNireless methoder	Wi-Fi	1	AC adapter input voltage	
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Bluetooth version       3.04 HS       Weight & dimensions       3.09 mm         Cabling technology       10/100/1000Base-T(X)       Width       339 mm       339 mm         Ports & interfaces       Poth       230 mm       230 mm         USB 2.0 ports quantity       4       Height (front)       2.8 cm       2.0 mm         USB 2.0 ports quantity       1       Height (rear)       3.3 cm       2.0 mm         Ethernet LAN (RJ-45) ports       1       Weight *       2.1 kg       2.0 mm         DVI port       A       Maging content       2.1 kg       2.0 mm         DVI port       A       AC adapter included *       .1 kg       2.0 mm         VGA (D-Sub) ports quantity       1       AC adapter included *       .1 kg       .1 kg         VIP ort       X       Cadapter included *       .1 kg       .1 kg         S/PDI out port       X       Quick start guide       .2 kg       .2 kg         S/PDI out port       X       Graphics card family       .1 kg       .2 kg         Line-in       X       Marced data port       X       .2 kg         CardBus PCMCIA slot type       X       Marced dat	Ethernet LAN		Cable lock slot	×
Cabiling technology       10/10/1000Base-T(X)       Weight & dimensions         Ports & interfaces       Width       339 mm         USB 2.0 ports quantity *       4       Depth       230 mm         eSATA/USB 2.0 ports quantity       1       Height (front)       2.8 cm         eSATA/USB 2.0 ports quantity       1       3.1 cm       Image: Comment of the tight (front)       3.3 cm         Ethernet LAN (R)-45) ports       1       Meight & Crearing content       2.1 kg         DVI port       X       Acd adpter included *       .1 kg         VGA (D-Sub) ports quantity       1       Acd adpter included *       .1 kg         VGA (D-Sub) ports quantity       1       Acd adpter included *       .1 kg         VGA (D-Sub) ports quantity       1       Acd adpter included *       .1 kg         Virophone outputs       1       Acd adpter included *       .1 kg         S/PDIF out port       X       Manual       .2 kit         Line-in       Y       Y       Y       .2 kit         Doking connector       X       SamtCard slot type       Ac/DC       .2 kit         SymatCard slot       X       Y       .2 kit       .2 k			Fingerprint reader	1
Width   339 mm     Ports & interfaces   Width   339 mm     Depth   230 mm     USB 2.0 ports quantity *   4   Height (front)   2.8 cm     ESATA/USB 2.0 ports quantity   1   Height (rear)   3.3 cm     Ethernet LAN (RJ-45) ports   1   Weight *   2.1 kg     DVI port   X   Packaging content   Y     VGA (D-Sub) ports quantity   1   AC adapter included *   *     VGA (D-Sub) ports quantity   1   AC adapter included *   *     VGA (D-Sub) ports quantity   1   AC adapter included *   *     VGA (D-Sub) ports quantity   1   AC adapter included *   *     VGA (D-Sub) ports quantity   1   AC adapter included *   *     VGA (D-Sub) ports quantity   1   Manual   *     VGA (D-Sub) ports quantity   1   Manual   *     Iteaphone outputs   1   Manual   *     S/PDIF out port   X   Manual   *     Docking connector   X   Microsoft   Manual     CardBus PCMCIA slot type   X   Manual   *     SmartCard slot   X   Manual   Manual     Ferformance   X   Manual   Manual <tr< td=""><td></td><td></td><td>Weight &amp; dimensions</td><td></td></tr<>			Weight & dimensions	
USB 2.0 ports quantity*4Leptn2.0 mmeSATA/USB 2.0 ports quantity1Height (front)2.8 cmeSATA/USB 2.0 ports quantity1Meight (rear)3.3 cmEthernet LAN (RJ-45) ports1Packaging content2.1 kgDVI portXAC adapter included *VGA (D-Sub) ports quantity1AC adapter included *Height one outputs1ManualS/PDIF out portXQuick start guideS/PDIF out portXOuter featuresLine-in<		10/100/1000BdSe-1(X)	Width	339 mm
eSATA/USB 2.0 ports quantity1Height (rear)3.3 cmEthernet LAN (RJ-45) ports1Weight *3.1 kgHDMI ports quantity *1Packaging content2.1 kgDVI portXAC adapter included *VGA (D-Sub) ports quantity1AC adapter included *Headphone outputs1ManualS/PDIF out portXQuick start guideMicrophone inOther features802.11 b/g/nDocking connectorXInfrared data portXXExpressCard slotXGraphics card familyIntelCardBus PCMCIA slot typeXDisplayTFTSmartCard slotXCompliance industry standards Intel segment taggingIEEE 802.3/802.3u/802.3ab Home office, Small BusinessPerformanceIntel QM65SSSKeyboardTouchpadTouchpadSPointing deviceTouchpadSSPointing deviceTouchpadSSMother board chipsetTouchpadSPointing deviceTouchpadSPointing deviceTouchpadSPointing deviceTouchpadPointing deviceTouchpadPointing deviceTouchpadPointing deviceTouchpadPointing deviceTouchpadPointing deviceTouchpadPointing deviceTouchpadPointing deviceTouchpadPointing devi			•	
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**Catalog Object Cloud** 



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