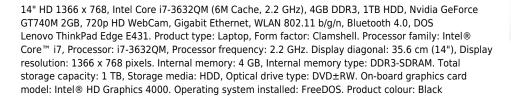
Lenovo ThinkPad Edge E431 Intel® Core™ i7 i7-3632QM Laptop 35.6 cm (14") 4 GB DDR3-SDRAM 1 TB HDD NVIDIA® GeForce® GT 740M FreeDOS Black

Brand : Lenovo Product family: ThinkPad Product code: 62773JA

Product name: Edge E431







Design		Ports & interfaces	
Product type *	Laptop	S/PDIF out port	x
Product colour *	Black	Microphone in	×
Form factor *	Clamshell	Combo headphone/mic port	✓
Market positioning	Business	ExpressCard slot	×
Display		CardBus PCMCIA slot type	×
Display diagonal *	35.6 cm (14")	SmartCard slot	×
Display resolution *	1366 x 768 pixels	USB Sleep-and-Charge	7
Touch screen *	×		•
LED backlight	✓	Keyboard	
Native aspect ratio	16:9	Numeric keypad *	×
Display surface	Gloss	Spill-resistant keyboard	✓
Processor		Full-size keyboard	✓
Processor manufacturer *	Intel	Windows keys	✓
Processor family *	Intel® Core™ i7	Software	
Processor generation	3rd gen Intel® Core™ i7	Operating system installed *	FreeDOS
Processor *	i7-3632QM	, 5 ,	
Processor number of cores	4	Processor special features	
Processor threads	8	Intel Wireless Display (WiDi) Technology	✓
Processor boost frequency	3.2 GHz	Intel My WiFi Technology	1
Processor frequency *	2.2 GHz	Intel Anti-Theft Technology	
System bus data transfer rate	5 GT/s	5.	•
Processor cache	6 MB	Intel Identity Protection Technology	✓
Processor cache type	Smart Cache Socket 1224	Intel Hyper-Threading Technology	✓
Processor socket L3 cache	SOCKET 1224 6 MB	Intel Turbo Boost Technology	2.0
Processor lithography	22 nm	Intel® Small Business Advantage (Intel® SBA)	✓
Processor operating modes	64-bit	Enhanced Intel SpeedStep	
Processor series	Intel Core i7-3600 Mobile series	Technology	✓
Processor codename	Ivy Bridge	Intel Clear Video HD Technology	✓
Bus type	DMI	Intel Clear Video Technology	×
FSB Parity	×	Intel® InTru™ 3D Technology	✓
Thermal Design Power (TDP)	35 W	Intel® Insider™	✓
Tjunction	105 °C	Intel® Quick Sync Video Technology	✓
Maximum number of PCI Express lanes	16	Intel Flex Memory Access	✓
PCI Express slots version	3.0	Intel® Smart Cache	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel AES New Instructions	✓

CPU multipiler (bus/core ratio) 22				
Memory	Processor		Processor special features	
Internal memony	CPU multiplier (bus/core ratio)	22	Intel Trusted Execution Technology	×
Tables (EPT)	ECC supported by processor	×	Intel Enhanced Halt State	✓
Internal memory type	Memory	A CD	5	✓
Memory clock speed 1600 MHz	•		Intel Demand Based Switching	×
Memony slots SO-DIMM Intel Edar Video Technology for MID X Meaniny slots 2x SO-DIMM Intel 64 X X Storage X Lide Statas X X Storage capacity ** 1 TB Themaal Monitoring Technologies X X Storage media ** HDD Processor package size 37.5 x 37.5 (r/PGA9888) Number of hard drive sinstilled 1 TB Supported instruction sets AVX Hard drive coatonal speed 5400 RPM Embedded options available X Hard drive coatonal speed 5400 RPM Embedded options available X Card reader integrated 7 Branch Mark X Card reader integrated 7 Branch Mark X Card graphics Life Intel Secure Reproduction (max) 1 1 Card reader integrated 7 20 1 1 2 2 Graphics Life Intel Secure Reproduction (max) 1 1 0 0 0 0 0 0 0 0	,		Intel® Secure Key	✓
Memory slots 2x SO-DIMM	·		Intel Clear Video Technology for MID	×
Storage Sto	Memory slots		Intel 64	/
Total storage capacity* ITB Thermal Monitoring Technologies Storage media* HDD Processor package size 37.5 x 37.5 (rPGA988B) Number of hard drives installed 1 Supported instruction sets AVX AVX AVX AVX AVX AVX AVX AV	Maximum internal memory *	16 GB	Execute Disable Bit	✓
Storage media MDD	Storage		Idle States	✓
Storage media	Total storage capacity *	1 TB	Thermal Monitoring Technologies	✓
Hard drive capacity Hard drive rotational speed 5400 RPM Embedded options available Card reader integrated For policial drive by e* Card graphics For policial drive by e* Card reader integrated For policial drive by expension for policial drive by exists integrated integrated for policial drive by exists integrated for policial drive by exists integrated for policial drive by exists integrated for policial drive by expensions For policial drive by exists integrated for policial drive by expensions For policial drive by exists integrated for policial drive by expensions For policia drive by exists integrated for policial drive by expensions For policia drive by exists integrated for policial drive by expensions For policia dr	Storage media *	HDD	Processor package size	37.5 x 37.5 (rPGA988B)
Hard drive rotational speed	Number of hard drives installed	1	Supported instruction sets	AVX
Optical drive type * OPVD±RW Graphics & IMC lithography 22 nm intel Virtualization Technology for Directed (PO (VT-d) intel Virtualization Technology for Directed (PO (VT-d) intel Identity Protection Technology for Originate (PO (VT-d) intel Identity Protection Technology or Survivor Protection Technology (VT-d) intel Identity Protection Technology (VT-d) intel Identity Protection Technology (VT-d) intel Virtualization Technology (VT-d) intel	Hard drive capacity	1 TB	CPU configuration (max)	1
Graphics Intel Virtualization Technology for Directed I/O (VF-d) Intel Virtualization Technology for Directed I/O (VF-d) Intel dentity Protection Technology 1.00	Hard drive rotational speed	5400 RPM	Embedded options available	×
Directed U/O (VT-d) Intel Identity Protection Technology Discrete graphics card model* Discrete graphics card memory Discrete graphics card memory Discrete graphics card * Discrete graphics card family Discrete graph	Optical drive type *	DVD±RW		22 nm
Discrete graphics card model NVIDIA® GeForce® GT 740M Discrete graphics card memory 2 GB Intel Secure Key Technology version 1.00	Card reader integrated	*		×
On-board graphics card *	Discrete graphics card model *	NVIDIA® GeForce® GT 740M		1.00
Discrete graphics card V	Discrete graphics card memory	2 GB	, ,,	1.00
On-board graphics card family On-board graphics card model* On-board graphics card base frequency On-board graphics card base frequency On-board graphics card dynamic frequency (max) On-board graphics card dynamic Frequency On-board graphics card dyn	On-board graphics card *			/
On-board graphics card model * Intel® HD Graphics 4000 Intel RDI Technology / On-board graphics card base frequency (max)	- ,		. , .	✓
On-board graphics card base frequency On-board graphics card base frequency Intel Rapid Storage Technology Intel Rasid Storage Technology Intel Rasid Storage Technology Intel Rasid Storage Technology Processor ARK ID 71458 On-board graphics card ID Ox166 Conflict-Free processor Integrated 4G WIMAX V Audio Audio Dolby Advanced Audio v2 Battery Audio system Number of built-in speakers Integrated 4G WIMAX V Battery Battery technology Lithium-Ion (Li-Ion) Number of battery cells Intel Rasid Memory Access V Battery Battery Battery Lithium-Ion (Li-Ion) Number of battery cells Intel Rasid Memory Access V Battery Battery Battery Battery Battery Lithium-Ion (Li-Ion) Number of battery cells Intel Rasid Memory Access Integrated 4G WIMAX Integrate	= '	•	3,	
frequency on-board graphics card dynamic frequency (max) 1150 MHz	• •	•	3,	
It 50 MHz Processor ARK ID 71458 On-board graphics card ID 0x166 Conflict-Free processor ✓ Audio Integrated 4G WiMAX ✓ Audio System Dolby Advanced Audio v2 Battery Number of built-in speakers 2 Battery technology Number of built-in speakers 2 Battery life (max) 6 h Camera ✓ Energy Management Network ✓ Colling Ago 2.11b, 802.11g, Wi-Fi 4 (802.11n) Cable lock slot ✓ Ethernet LAN connection ✓ Fingerprint reader ✓ Fingerprint reader ✓ Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth version 4.0 Depth 238.7 mm 4G WiMAX ✓ Wieff Ago 2.11b, 802.11b Ports quantity ↑ Ports Quantity ↑ Usb 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity ↑ Ethernet LAN (RJ-45) ports quantity ↑ 1 Network Vision of the processor ARK ID 71458 Processor Ax ID 64459 P	frequency	650 MHz		
On-board graphics card ID 0x166 Conflict-Free processor Audio Audio	On-board graphics card dynamic	1150 MHz	•	
Audio Audio system Dolby Advanced Audio v2 Audio system Number of built-in speakers Built-in microphone V Audio system Number of built-in speakers Built-in microphone V Audio system Number of built-in speakers Built-in microphone V Audio system Number of built-in speakers Built-in microphone V Audio system Number of built-in speakers Buttery technology Number of battery cells 6 6 Camera Battery life (max) 6 6 h Front camera V Energy Management DC-in jack V Security Wi-Fi Security Wi-Fi standards B02.11b, 802.11g, Wi-Fi 4 (802.11n) Cable lock slot Fingerprint reader V Ethernet LAN connection V Fingerprint reader V Width Bluetooth V Width Bluetooth V Width Bluetooth V Width Bluetooth version 4.0 Depth Bluetooth version 4.0 Depth Bluetooth version 4.0 Depth Bluetooth version 4.0 Depth Bluetooth Veight V Weight V Security V Security V Selfer (D-Sulp ports quantity * V Security AC adapter bundled * V Ethernet LAN (RJ-45) ports quantity * I DC-in jack V Security Security Cable lock slot V Fingerprint reader V Fingerprint	• • • •	0×166		
Audio system Dolby Advanced Audio v2 Battery Number of built-in speakers Built-in microphone V Number of battery technology Lithium-lon (Li-lon) Number of battery cells 6 Camera Battery life (max) 6 h Front camera V Energy Management DC-in jack V Wi-Fi V Security Wi-Fi standards 802.11b, 802.11g, Wi-Fi 4 (802.11n) Ethernet LAN connection V Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth V Bluetooth V Width 344 mm 344 mm 4G WiMAX Width Depth 238.7 mm Height 24.9 mm Ports & interfaces USB 2.0 ports quantity USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity PORTS Quantity 1 Manual V CABLE Company AC AC adapter bundled V Cher features LightScribe X V VISION ports quantity 1 DVI port V CABLE Company AC Ho-Sulp ports quantity LightScribe X LightScribe Lig		0.100	•	
Number of built-in speakers 2 Battery technology Lithium-lon (Li-lon) Number of battery cells 6 Camera Battery life (max) 6 h Front camera			Integrated 4G WIMAX	*
Built-in microphone V Number of battery cells 6 Camera Front camera V Energy Management Network Wi-Fi Wi-Fi Wi-Fi standards 802.11b, 802.11g, Wi-Fi 4 (802.11n) Ethernet LAN connection Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth Bluetooth V Width 344 mm Depth 14.0 Ports & interfaces USB 2.0 ports quantity* USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity 1 DVI port WGA (D-Sub) ports quantity* 1 DVI port V Mumber of battery cells 6 Camera Number of battery cells 6 Camera Number of battery cells 6 Camera V Energy Management X Veight V Security Cable lock slot X Fingerprint reader V Weight & Dimensions Width 344 mm Depth 238.7 mm Height 24.9 mm Veight * 2.13 kg Veight * 2.13 kg Veight * V	•	•	Battery	
Camera Battery life (max) 6 h Front camera V Energy Management DC-in jack V Wi-Fi Wi-Fi Security Wi-Fi standards 802.11b, 802.11g, Wi-Fi 4 (802.11n) Ethernet LAN connection V Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth V Widht Dimensions Bluetooth version 4.0 Depth Bluetooth version 4G WiMAX V Ports & interfaces USB 2.0 ports quantity 1 Packaging Content USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity Ports Quantity 1 Pother features DVI port VGA (D-Sib) ports quantity 1 DVI port V VGA (D-Sib) ports quantity 1 DEBAG (D-Sib) ports quantity A C adapter bundled V VIMEN VIMEN V VIMEN V VIMEN V V VIMEN V V V V V V V V V V V V V	•		Battery technology	Lithium-lon (Li-lon)
Front camera Very Metwork Wi-Fi Wi-Fi Wi-Fi standards 802.11b, 802.11g, Wi-Fi 4 (802.11n) Ethernet LAN connection Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth V Bluetooth V Bluetooth V Width Depth Depth 238.7 mm Height 24.9 mm Very Meight & Dimensions Weight * 2.13 kg VSB 2.0 ports quantity * 1 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Ethernet LAN (RJ-45) ports quantity * HDMI ports quantity * There is a second of the second of	Built-in micropnone	•	•	
Network Wi-Fi Wi-Fi Wi-Fi standards 802.11b, 802.11g, Wi-Fi 4 (802.11n) Ethernet LAN connection Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth ### Width ### Depth ### Depth ### 24.9 mm ### 25.13 kg USB 2.0 ports quantity* USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity* ### 25	Camera		Battery life (max)	6 h
Wi-Fi	Front camera	✓	Energy Management	
Wi-Fi standards 802.11b, 802.11g, Wi-Fi 4 (802.11n) Ethernet LAN connection Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth Bluetooth version 4.0 AG WiMAX Ports & interfaces USB 2.0 ports quantity* USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Ethernet LAN (RJ-45) ports quantity 1 Manual AC adapter bundled * Manual AC AC Adapter bundled * Manual AC Adapter bundled * Man	Network		DC-in jack	✓
Ethernet LAN connection Ethernet LAN data rates 10,100,1000 Mbit/s Bluetooth 4.0 4G WiMAX Ports & interfaces USB 2.0 ports quantity * USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Ethernet LAN (RJ-45) ports quantity * 1 Deth Manual AC adapter bundled * Width 344 mm 238.7 mm Height 24.9 mm Weight * 2.13 kg Packaging Content AC adapter bundled * Weight * Wei	Wi-Fi	✓	Security	
Ethernet LAN data rates Bluetooth Bluetooth version 4.0 Boundary Boundary Bluetooth version 4G WiMAX Width Depth Height Height Weight * Weigh	Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Cable lock slot	×
Ethernet LAN data rates Bluetooth Bluetooth version 4.0 Bluetooth version 4G WiMAX Ports & interfaces USB 2.0 ports quantity * USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Ethernet LAN (RJ-45) ports quantity * Bluetooth version 4.0 Depth Dep	Ethernet LAN connection	1	Fingerprint reader	✓
Bluetooth Bluetooth version 4.0 Width Depth 238.7 mm Height 24.9 mm Ports & interfaces Weight* USB 2.0 ports quantity* USB 2.0 ports quantity* USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity Ethernet LAN (RJ-45) ports quantity HDMI ports quantity* 1 Other features LightScribe Width 344 mm 344 mm Ac ada, Temporal Action Adama and Action Weight Action Action Action Action Other features LightScribe X	Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth version 4G WiMAX AG WiMAX AG WiMAX AG WiMAX AG WiMAX AC adapter bundled * Ethernet LAN (RJ-45) ports quantity * Depth Height AC adapter bundled * Manual AC adapter bundled * Weight * *	Bluetooth	✓	•	244
## Height 24.9 mm ## Ports & interfaces USB 2.0 ports quantity * 1 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 2 Ethernet LAN (RJ-45) ports quantity 1 HDMI ports quantity * 1 DVI port VGA (D-Sub) ports quantity 1 Height 24.9 mm Act adapter bundled * 2.13 kg Weight * 2.13 kg Packaging Content AC adapter bundled * Manual Other features LightScribe X	Bluetooth version	4.0		
Ports & interfaces Weight * 2.13 kg USB 2.0 ports quantity * 1 Packaging Content USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 2 AC adapter bundled * ✓ Ethernet LAN (RJ-45) ports quantity * 1 Manual ✓ HDMI ports quantity * 1 Other features DVI port X LightScribe X	4G WiMAX	×	•	
USB 2.0 ports quantity * 1 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 2 Ethernet LAN (RJ-45) ports quantity * 1 HDMI ports quantity * 1 DVI port VGA (D-Sub) ports quantity 1 YGA (D-Sub) ports quantity 1 Packaging Content AC adapter bundled * Manual Other features LightScribe X	Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Ethernet LAN (RJ-45) ports quantity 1 Manual HDMI ports quantity * DVI port VGA (D-Sub) ports quantity 1 AC adapter bundled * Manual Other features LightScribe X	USB 2.0 ports quantity *	1		
ports quantity * Ethernet LAN (RJ-45) ports quantity 1 Manual HDMI ports quantity * 1 Other features DVI port VGA (D-Sub) ports quantity 1	USB 3.2 Gen 1 (3.1 Gen 1) Type-A	2		
HDMI ports quantity * 1 Other features DVI port VGA (D-Sub) ports quantity 1	ports quantity *	2		
DVI port X LightScribe X VGA (D-Sub) ports quantity 1	, , , , , , , ,		Manual	✓
VGA (D-Sub) ports quantity 1			Other features	
VGA (D-Sub) ports quantity Intel segment tagging Home office, Small Business	·		LightScribe	x
	vga (D-Sub) ports quantity	1	Intel segment tagging	Home office, Small Business

Catalog Object Cloud



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