

## Lenovo ThinkPad W540 Intel® Core™ i7 i7-4900MQ Mobile workstation 39,4 cm (15.5") Quad HD 8 GB DDR3L-SDRAM 512 GB SSD NVIDIA® Quadro® K2100M Windows 8 Pro Black

Brand : Lenovo Product family: ThinkPad Product code: 20BH004RUK

**Product name:** W540

Intel Core i7-4900MQ, 2.8Hz, NVIDIA Quadro K2100M, 8GB (1x 8GB) DDR3L, 1600MHz, 15.5", 2880 x 1620, IPS, 512GB SSD, DVD $\pm$ RW, 802.11a/b/g/n, Bluetooth 4.0, 720p, X-Rite, 9-cell (99.9Wh), 170W, Windows 8 Pro 64-bit

Lenovo ThinkPad W540. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-4900MQ, Processor frequency: 2,8 GHz. Display diagonal: 39,4 cm (15.5"), HD type: Quad HD, Display resolution: 2880 x 1620 pixels. Internal memory: 8 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 512 GB, Storage media: SSD, Optical drive type: DVD±RW. Operating system installed: Windows 8 Pro. Product colour: Black





Product type * Mobile workstation Pointing device Trackpad  Product colour * Black Numeric keypad * ✓  Form factor * Clamshell Keyboard backlit  Intel® vPro™ Platform Eligibility X Island-style keyboard ✓				
Product colour*   Black   Clamshell   Keybaard backlit   ✓   Form factor*   Clamshell   Keyboard backlit   ✓   Intel® vPro™ Platform Eligibility   X   Island-style keyboard   ✓   Display   Windows keys   ✓   Display diagonal*   39.4 cm (15.5")   Software   Operating system architecture   64-bit   Touchscreen*   X   Operating system architecture   64-bit   Windows 8 Pro   Operating system installed*   Windows 8 Pro   Display resolution*   Quad HD   Panel type   Quad HD   Panel type   IPS   Intel® Wireless Display (Intel®   WiDi)   Display brightness   350 cd/m²   MWT)   Intel® Wireless Display (Intel®   X   Native aspect ratio   16:9   Intel® My WiFi Technology (Intel®   X   Processor   Intel® Arti Technology (Intel® Arti Technology (Intel® Arti Technology (Intel® Arti Technology (Intel® HT Technology (Intel® Intel® Clear Video HD Technology (Intel® Intel® Clear Video HD Technology (Intel® Intel® Clear Video HD Technology (Intel® Intel® Clear Video Technology (Intel® Intel® In	Design		Keyboard	
Form factor * Clamshell Keyboard backlit	· ·		<del>-</del>	·
Intel® vPro™ Platform Eligibility X  Island-style keyboard		-10-0-1	Numeric keypad *	1
Display  Display (algonal * 39.4 cm (15.5")  Display resolution * 2880 x 1620 pixels  Touchscreen * X Operating system architecture  Panel type (PS)  Display brightness  Display brightes  Display brightnes			Keyboard backlit	✓
Display diagonal * 39.4 cm (15.5")  Display resolution * 2880 x 1620 pixels  Operating system architecture  Operating system installed * Windows 8 Pro  Windows 8 Pro  Processor special features  Processor special features  Intel® Wireless Display (Intel® windows 8 Pro  WiDi)  Native aspect ratio 16:9  Display brightness 350 cd/m² MWT)  Contrast ratio (typical) 1000:1  Intel® Anti-Theft Technology (Intel® windows 8 Pro  Processor  Processor muniformation 16:9  Intel® Anti-Theft Technology (Intel® windows 8 Pro  Intel® My WiFi Technology (Intel® windows 8 Pro  WiDi)  Processor  Processor Intel® (Intel® My WiFi Technology (Intel® windows 8 Pro  Intel® My WiFi Technology (Intel® windows 8 Pro  Intel® Anti-Theft Technology (Intel® windows 8 Pro  Intel® My WiFi Technology (Intel® windows 8 Pro  Intel® Anti-Theft Technology (Intel® windows 8 Pro  Intel® (Intel® Anti-Theft Technology (Intel® windows 8 Pro  Intel® (Intel® Anti-Theft Technology (Intel® windows 8 Pro  Intel® (Intel® (Intel® Intel® WiPro  Intel® (Intel® (Intel® Intel® WiPro  Intel® (Intel® Intel® Intel® WiPro  Intel® (Intel® Intel® Intel® Intel® WiPro  Intel® (Intel® Intel® In	Intel® vPro™ Platform Eligibility	×	Island-style keyboard	<b>✓</b>
Display resolution * 2880 x 1620 pixels Operating system architecture 64-bit Touchscreen * X Operating system installed * Windows 8 Pro HD type Quad HD Panel type IPS Intel® Wireless Display (Intel® X MWT)  Contrast ratio (typical) 1000:1 Intel® Anti-Theft Technology (Intel® AT)  Processor  Processor manufacturer * Intel Technology (Intel® HT Technology (Intel® IPT)  Processor generation 4th gen Intel® Core™ i7 Intel® Hyper Threading Technology  Processor model * i7-4900MQ Intel® Turbo Boost Technology  Processor threads 8 Technology  Processor threads 8 Technology  Processor boost frequency 3.8 GHz  Processor cache NB MB  Processor cache S MB  Processor cache S MB  Processor cache S MB  Processor cache S MB  Processor cache Processor cache Processor ithory  Processor cache Processor ithory  Processor cache Processor ithory  Processor cache Processor ithography 22 nm Intel® Intru™ 3D Technology Processor perating modes 64-bit Intel® National Place Processor (Intel® Clear Video Technology Processor perating modes Processor cache Processor cache Processor series Intel Core i7-4900 Mobile Series Intel® Smart Cache  Processor codename Intel® Core i7-4900 Mobile Series Intel® Smart Cache  Processor codename Intel® Cache Processor (Intel® Intel® Smart Cache  Processor codename Intel® Cache Processor (Intel® Processor (Intel® Intel® Smart Cache  Processor (Intel® Processor (Intel® Processor	Display		Windows keys	✓
Touchscreen * X Operating system architecture 64-bit Mindows 8 Pro Processor special features  HD type Quad HD  Panel type IPS Intel® Wireless Display (Intel® MWT)  Native aspect ratio 16:9 Intel® My WiFi Technology (Intel® MWT)  Contrast ratio (typical) 1000:1 Intel® Anti-Theft Technology (Intel® PT)  Processor  Processor manufacturer * Intel Technology (Intel® IPT) Intel® Anti-Theft Technology (Intel® IPT)  Processor family * Intel® Core™ i7 Intel® Hyper Threading Technology (Intel® IPT)  Processor ores 4 Finhanced Intel® Turbo Boost Technology 2.0  Processor ores 4 Finhanced Intel® Clear Video HD Technology 7  Processor threads 8 Frocessor boost frequency 3.8 GHz Intel® Clear Video HD Technology 7  Processor cache 8 MB Intel® Clear Video Technology 7  Processor cache 18 MB Intel® Intru™ 3D Technology 7  Processor cache 19 GA946 Intel® Intru™ 3D Technology 7  Processor socket PGA946 Intel® Insider™ 7  Processor operating modes 64-bit Intel® Insider Memory Access X  Processor series Intel Core i7-4900 Mobile Series Intel® Smart Cache 7  Processor codename Intel® Smart Cache 1  Intel® AES New Instructions (Intel® 7  Intel® AES New Instruct	, , ,	, ,	Software	
HD type Quad HD Panel type IPS  LED backlight		·	Operating system architecture	64-bit
Panel type  LED backlight  V Native aspect ratio Display brightness 350 cd/m² Contrast ratio (typical) Processor Processor manufacturer* Intel® Core™ i7 Intel® Manti-Theft Technology (Intel® WHT) Intel® Anti-Theft Technology (Intel® MHT) Intel® Identity Protection Technology (Intel® PT) Processor manufacturer* Intel® Core™ i7 Intel® Hyper Threading Technology (Intel® HT) Processor model * Processor model * Processor model * Processor threads Processor threads Processor threads Processor fequency Service S			Operating system installed *	Windows 8 Pro
LED backlight  Native aspect ratio  16:9  Display brightness  350 cd/m²  Contrast ratio (typical)  Processor  Processor manufacturer * Intel® Core™ i7  Processor generation  4th gen Intel® Core™ i7  Processor threads  8  Processor threads  8  Processor threads  8  Processor frequency *  Processor fequency *  Processor cache  8  Processor cache  9 MB  Processor cache  9 MB  Processor cache  9 MB  Processor cache  9 MB  Processor socket  9 FGA946  Processor series  Intel® Core i7-4900 Mobile Series  Intel® Intel® Lintel® Unitel® Trubnology  Intel® Clear Video Technology  Intel® Clear Video Technology  Y  Processor cache  Processor socket  PGA946  Intel® Intel® Intru™ 3D Technology  Processor operating modes  64-bit  Intel® Quick Sync Video Technology  Intel® Smart Cache  Intel® Insider™  Y  Processor series  Intel Core i7-4900 Mobile Series  Intel® Smart Cache  Intel® My Wifi Technology (Intel® Intel® My Wifi Technology (Intel® Intel® AES New Instructions (Intel® Intel® Smart Cache  Intel® AES New Instructions (Intel® Intel® Smart Cache  Intel® AES New Instructions (Intel® Intel® Smart Cache  Intel® AES New Instructions (Intel® Intel®	71.	•	Processor special features	
Native aspect ratio Display brightness 350 cd/m² NWT)  Contrast ratio (typical) 1000:1  Intel® My WiFi Technology (Intel® MWT)  Processor  Processor Processor manufacturer* Intel® Core™ i7 Intel® Identity Protection Technology (Intel® IPT)  Processor generation 4th gen Intel® Core™ i7 Intel® Hyper Threading Technology (Intel® HT Technology)  Processor model* Processor cores 4 Enhanced Intel SpeedStep Technology Processor frequency Processor frequency* 2.8 GHz Processor frequency* Processor cache Processor cache Processor cache type Processor cache Processor socket PGA946 Intel® Intel® Intru™ 3D Technology Processor operating modes Frequency Processor series Intel Core i7-4900 Mobile Series Intel® Smart Cache Processor codename Intel® Smart Cache Intel	· ·			<b>✓</b>
Display brightness 350 cd/m² MWT)  Contrast ratio (typical) 1000:1 Intel® Anti-Theft Technology (Intel® AT)  Processor  Processor manufacturer * Intel Technology (Intel® IPT)  Processor family * Intel® Core™ i7 Intel® Hyper Threading Technology (Intel® HT Technology)  Processor generation 4th gen Intel® Core™ i7 (Intel® HT Technology)  Processor model * i7-4900MQ Intel® Turbo Boost Technology 2.0  Processor cores 4 Enhanced Intel SpeedStep Technology 8  Processor threads 8 Technology Intel® Clear Video HD Technology (Intel® CVT HD)  Processor frequency * 2.8 GHz Intel® Clear Video Technology (Intel® InTru™ 3D Technology ✓ Intel® InTru™ 3D Technology ✓ Intel® Intel® Insider™ ✓ Intel® Insider™ ✓ Intel® Insider™ ✓ Intel® Insider™ ✓ Intel® Inte	Native aspect ratio	16:9	· · · · · · · · · · · · · · · · · · ·	
Processor  Processor manufacturer * Intel Processor family * Intel® Core™ i7 Intel® Hyper Threading Technology Processor model * i7-4900MQ Intel® Turbo Boost Technology Processor cores Processor threads Processor threads Processor frequency Processor frequency Processor frequency Processor cache Processor socket Processor socket Processor ilthography Processor operating modes Processor cache Processor cache Processor cache Processor cache Processor operating modes Processor series Processor cache Processor cache Processor cache Processor cache Processor series Processor cache Processor cache Processor cache Processor cache Processor series Processor cache Proce	Display brightness	350 cd/m²	, , , , , , , , , , , , , , , , , , , ,	×
Processor(Intel® AT)Processor manufacturer *IntelTechnology (Intel® IPT)Processor family *Intel® Core™ i7Intel® Hyper Threading TechnologyProcessor generation4th gen Intel® Core™ i7(Intel® HT Technology)Processor model *i7-4900MQIntel® Turbo Boost Technology2.0Processor cores4Enhanced Intel SpeedStepProcessor threads8Intel® Clear Video HD TechnologyProcessor boost frequency3.8 GHzIntel® Clear Video HD TechnologyProcessor frequency *2.8 GHzIntel Clear Video TechnologyProcessor cache8 MBIntel® InTru™ 3D TechnologyProcessor cache typeSmart CacheIntel® Insider™Processor socketPGA946Intel® Insider™Processor ilthography22 nmIntel® Quick Sync Video TechnologyProcessor operating modes64-bitIntel Flex Memory AccessProcessor seriesIntel Core i7-4900 Mobile SeriesIntel® Smart CacheProcessor codenameHaswellIntel® AES New Instructions (Intel®	Contrast ratio (typical)	1000:1		
Processor manufacturer*       Intel       Technology (Intel® IPT)         Processor family *       Intel® Core™ i7       Intel® Hyper Threading Technology (Intel® HT Technology)         Processor generation       4th gen Intel® Core™ i7       (Intel® HT Technology)         Processor model *       i7-4900MQ       Intel® Turbo Boost Technology       2.0         Processor cores       4       Enhanced Intel SpeedStep Technology       ***         Processor threads       8       Intel® Clear Video HD Technology (Intel® CVT HD)       ***         Processor frequency *       2.8 GHz       Intel® Clear Video Technology       ***         Processor cache       8 MB       Intel® InTru™ 3D Technology       ***         Processor cache type       Smart Cache       Intel® Insider™       ***         Processor lithography       22 nm       Intel® Quick Sync Video Technology       **         Processor operating modes       64-bit       Intel® Smart Cache       **         Processor codename       Intel® Smart Cache       **         Intel® AES New Instructions (Intel®       **	Processor		· ·	•
Processor generation 4th gen Intel® Core™ i7 (Intel® HT Technology)  Processor model * i7-4900MQ Intel® Turbo Boost Technology 2.0  Processor cores 4 Enhanced Intel SpeedStep Technology 7  Processor threads 8 Intel® Clear Video HD Technology (Intel® CVT HD)  Processor frequency * 2.8 GHz Intel® Locar Video Technology (Intel® LOT HD)  Processor cache 8 MB Intel® InTru™ 3D Technology ✓  Processor socket PGA946 Intel® Insider™ ✓  Processor operating modes 64-bit Intel Flex Memory Access X  Processor codename Haswell Intel® Smart Cache	Processor manufacturer *	Intel		✓
Processor generation 4th gen Intel® Core™ i7 (Intel® HT Technology)  Processor model * i7-4900MQ Intel® Turbo Boost Technology 2.0  Processor cores 4 Enhanced Intel SpeedStep Technology 7 Processor threads 8 Intel® Clear Video HD Technology 8 Intel® Clear Video HD Technology 8 Intel® CVT HD)  Processor frequency * 2.8 GHz Intel® CVT HD)  Processor cache 8 MB Intel® InTru™ 3D Technology 7 Intel® Insider™ 7 Processor socket PGA946 Intel® Insider™ 7 Intel® Quick Sync Video Technology 9 Intel® Smart Cache 9 Intel® AES New Instructions (Intel® 7 Intel® AES New Instructions (Intel® 7 Intel® 7 Intel® AES New Instructions (Intel® 7 Intel® 7 Int	Processor family *	Intel® Core™ i7	Intel® Hyper Threading Technology	
Processor cores 4 Enhanced Intel SpeedStep Technology Processor threads 8 Intel® Clear Video HD Technology Processor frequency 3.8 GHz Intel® CVT HD) Processor frequency * 2.8 GHz Intel Clear Video Technology Processor cache 8 MB Intel® InTru™ 3D Technology ✓ Processor socket PGA946 Intel® Insider™ ✓ Processor lithography 22 nm Intel® Quick Sync Video Technology ✓ Processor operating modes 64-bit Intel Reprocessor series Intel Core i7-4900 Mobile Series Intel® Smart Cache Processor codename Haswell Intel® AES New Instructions (Intel®	Processor generation	4th gen Intel® Core™ i7	,	•
Processor threads 8 Technology Processor boost frequency 3.8 GHz Intel® Clear Video HD Technology Processor frequency * 2.8 GHz Intel © CVT HD) Processor cache 8 MB Processor cache type Smart Cache Processor socket PGA946 Intel® Insider™ ✓ Processor lithography 22 nm Intel® Quick Sync Video Technology ✓ Processor operating modes 64-bit Intel® Lore i7-4900 Mobile Series Intel® Smart Cache Processor codename Haswell Intel® AES New Instructions (Intel®	Processor model *	i7-4900MQ	• • • • • • • • • • • • • • • • • • • •	2.0
Processor boost frequency  Processor boost frequency  Processor frequency  2.8 GHz  Processor cache  8 MB  Processor cache type  Processor socket  Processor socket  Processor lithography  22 nm  Intel® Clear Video Technology  Intel® InTru™ 3D Technology  Intel® Insider™  ✓  Intel® Insider™  ✓  Intel® Quick Sync Video Technology  Processor lithography  Processor operating modes  64-bit  Intel® Quick Sync Video Technology  Intel® Resonance  Intel® Resonance  Intel® Smart Cache				✓
Processor frequency *  2.8 GHz  Intel ® CVT HD)  Processor cache  8 MB  Processor cache type  Smart Cache  Processor socket  PGA946  Processor lithography  22 nm  Intel ® Quick Sync Video Technology  Processor operating modes  64-bit  Intel ® Quick Sync Video Technology  Processor operating modes  Haswell  Intel ® Smart Cache  Intel ® Smart Cache  Intel ® Smart Cache  Intel ® Smart Cache		-	• •	
Processor cache Processor cache type Processor socket Processor lithography Processor operating modes Processor series Processor series Processor cache Processor cache type Processor socket PGA946 Intel® Insider™ ✓ Intel® Quick Sync Video Technology ✓ Intel® Quick Sync Video Technology ✓ Intel® Processor Video Technology ✓ Processor operating modes Intel® Smart Cache Processor codename  Haswell Intel® Smart Cache  Intel® Smart Cache ✓ Intel® Smart Cache	· · ·		(Intel® CVT HD)	•
Processor cache type     Smart Cache     Intel® InTru™ 3D Technology     ✓       Processor socket     PGA946     Intel® Insider™     ✓       Processor lithography     22 nm     Intel® Quick Sync Video Technology     ✓       Processor operating modes     64-bit     Intel Flex Memory Access     X       Processor series     Intel Core i7-4900 Mobile Series     Intel® Smart Cache     ✓       Processor codename     Haswell     Intel® AES New Instructions (Intel®	' '		Intel Clear Video Technology	×
Processor socket PGA946  Processor lithography 22 nm  Intel® Quick Sync Video Technology  Processor operating modes 64-bit Intel Flex Memory Access  Processor series Intel Core i7-4900 Mobile Series Intel® Smart Cache Processor codename  Haswell  Intel® AES New Instructions (Intel®			Intel® InTru™ 3D Technology	✓
Processor lithography 22 nm Intel® Quick Sync Video Technology ✓ Processor operating modes 64-bit Intel Flex Memory Access × Processor series Intel Core i7-4900 Mobile Series Intel® Smart Cache Processor codename Haswell Intel® AES New Instructions (Intel®	<b>71</b>		Intel® Insider™	✓
Processor operating modes 64-bit Intel Flex Memory Access   Processor series Intel Core i7-4900 Mobile Series Intel® Smart Cache  Processor codename Haswell Intel® AES New Instructions (Intel® ✓			Intel® Quick Sync Video Technology	· 🗸
Processor series Intel Core i7-4900 Mobile Series Intel® Smart Cache Processor codename Intel® AES New Instructions (Intel®	5 . ,	64-bit	Intel Flex Memory Access	×
Processor codename Haswell Intel® AES New Instructions (Intel®	,	Intel Core i7-4900 Mobile Series	•	
	Processor codename	Haswell		
	Bus type	DMI2	The state of the s	<b>/</b>

Processor		Processor special features	
FSB Parity	×	Intel Trusted Execution Technology	✓
Stepping	C0	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	47 W 100 °C	Intel VT-x with Extended Page Tables (EPT)	<b>✓</b>
Tjunction  Maximum number of PCI Express		Intel Demand Based Switching	x
lanes	16	Intel® Secure Key	^ /
PCI Express slots version	3.0	Intel TSX-NI	X
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Clear Video Technology for	^
ECC supported by processor	X	Mobile Internet Devices (Intel CVT for MID)	X
Memory		Intel 64	<b>✓</b>
Internal memory *	8 GB	Execute Disable Bit	,
Internal memory type	DDR3L-SDRAM	Idle States	4
Memory clock speed	1600 MHz		<b>v</b>
Memory form factor  Memory layout (slots x size)	SO-DIMM 1 x 8 GB	Thermal Monitoring Technologies	37.5 x 37.5 x 4.7 mm
Memory slots	4x SO-DIMM	Processor package size Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Maximum internal memory *	32 GB	Processor code	SR15K
·		CPU configuration (max)	1
Storage Total storage capacity *	E12 CP	Embedded options available	x
Total storage capacity * Storage media *	512 GB SSD	Intel Virtualization Technology for	/
Number of SSDs installed	1	Directed I/O (VT-d)	•
SSD capacity	512 GB	Intel Identity Protection Technology version	1.00
SSD interface	SATA III	Intel Secure Key Technology version	1.00
Optical drive type *	DVD±RW	Intel TSX-NI version	0.00
Card reader integrated	•	Intel Virtualization Technology (VT-	✓
Compatible memory cards	MMC, SD, SDHC, SDXC	x) Intel Dual Display Capable	
Graphics		Technology	×
Discrete graphics card model *	NVIDIA® Quadro® K2100M	Intel FDI Technology	✓
Discrete graphics card memory	2 GB	Intel Rapid Storage Technology	×
On-board graphics card *	•	Intel Fast Memory Access	×
Discrete graphics card *	· · · · · · · · · · · · · · · · · · ·	Processor ARK ID	75131
On-board graphics card family	Intel® HD Graphics	Conflict-Free processor	✓
On-board graphics card model * On-board graphics card base	Intel® HD Graphics 4600	Battery	
frequency	400 MHz	Battery technology	Lithium-lon (Li-lon)
On-board graphics card dynamic frequency (max)	1300 MHz	Number of battery cells	9
Maximum on-board graphics card		Battery capacity *	99.9 Wh
memory	1.74 GB	Battery life (max)	11.1 h
On-board graphics card DirectX	11.1	Power	
version On-board graphics card ID	0x416	AC adapter power	170 W
3 1	0.410	DC-in jack	<b>✓</b>
Audio	LID A. d'. D. died Al C2222 Delle	Security	
Audio system	HD Audio, Realtek ALC3232, Dolby Home Theater v4	Cable lock slot	✓
Number of built-in speakers	2	Cable lock slot type	Kensington
Speaker power	1 W	Fingerprint reader	✓
Built-in microphone	✓	Operational conditions	
Camera		Operating temperature (T-T)	5 - 35 °C
Front camera	✓	Storage temperature (T-T)	5 - 43 °C
Network		Operating relative humidity (H-H)	8 - 95%
Wi-Fi	/	Storage relative humidity (H-H)	5 - 95%
Wi-Fi standards	802.11a, 802.11b, 802.11g	Operating altitude	0 - 3048 m
Ethernet LAN	✓	Certificates	
Ethernet LAN data rates	10,100,1000 Mbit/s	Compliance certificates	RoHS
Bluetooth	✓	Sustainability	
Bluetooth version	4.0	Sustainability certificates	EPEAT Gold, ENERGY STAR

Ports & interfaces		Weight & dimensions	
USB 2.0 ports quantity * USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Ethernet LAN (RJ-45) ports Mini DisplayPorts quantity	2 2 1 1	Width Depth Height (front) Height (rear) Weight *	376.6 mm 248.1 mm 2.79 cm 2.95 cm 2.7 kg
DVI port	X	Other features	
Mini DisplayPort/Thunderbolt combo port	) <b>/</b>	LightScribe	×
VGA (D-Sub) ports quantity	1	Maximum internal memory (64-bit)	32 GB
S/PDIF out port	×	Intel® Virtualization Technology	VT-d, VT-x
Combo headphone/mic port	✓	(Intel® VT)	Professional
Docking connector	×	Intel segment tagging Profe	riolessional
ExpressCard slot	×		
CardBus PCMCIA slot type	×		
SmartCard slot	×		
USB Sleep-and-Charge	✓		
Performance			
Motherboard chipset	Intel® QM87		

