

CERTIFICATE

Certificate Id: 2PAA106563_Lenovo_ThinkPad_W510

Category:	Servers and Workstation
Product Name:	Lenovo ThinkPad W510
Software Version:	N/A
Chipset Version:	Intel QM57 Express
Vendor:	Lenovo
Certification Test Report:	3BSE064285
Certification reference:	System 800xA Version 5.1
Restrictions:	Only for engineering and commission

The certificate states that the product specified above has passed the test towards the specified integration category. The certification has been performed by an official certification center, approved by the official steering body for the Industrial IT Certification.

The basis for the certificate is documented according to the Industrial IT Certification – Document Number 3BSE037356. The certificate is valid for the above mentioned Product versions until the next major release of the certified product or the certification reference system. With a major release of the certified product or the reference system, a new certification is required to keep the certificate current.

ABB AB
721 59 Vasteras, Sweden

Date: 2010-10-27

Representative for the official steering body for the Industrial IT Certification



Erik Oja

ThinkPad W510

Industrial^{IT} Certification

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The Lenovo ThinkPad W510 offers:

- Powerful Intel® processor for more power when you need it most and easier multitasking
- NVIDIA® Quadro FX® MXM-based graphics (select models) stable, compatible and optimized for all professional applications
- Improved viewing with high-resolution, premium WSXGA+ or WUXGA displays

Certification results and product details are summarized below:

Product Overview	
Processor	Intel® Quad Core i7 720QM (1.6GHz 1066MHz 6MBL3) Intel® Quad Core i7 820QM (1.73GHz 1066MHz 8MBL3) Intel® Quad Core i7 920XM (2.0GHz 1333MHz 8ML3) Intel® Core™ i5-520M (2.40GHz 1066MHz 3MBL3) Intel® Core™ i5-560M (2.66GHz, 3MB L3, 1066MHz FSB) Intel® Core™ i7-620M (2.66GHz 1066MHz 4MBL3)
Memory	4 GB PC3-10600 DDR3 SDRAM 1333MHz SODIMM Memory
Chipset	Intel QM57 Express
Hard disc	160/250/320GB (5400 rpm) SATA, 250/320/500 (7200 RPM) SATA, 128/160/256GB Solide State Drive
Expansion Bays	Express Card 34mm, 5-in-1 MMC Reader®, Optional Contact or Contact-less Smart Card Reader®
Graphics	NVIDIA Quadro FX 880M Graphics with 1GB DDR3 memory
Network	Intel 82577LM Gigabit Network Connection, 11b/g/n Wireless LAN Mini-PCI Express Adapter II (on selected models), Intel Centrino Advanced-N 6200 (on selected models), Intel Centrino Ultimate-N 6300 (on selected models)
Optional Removable Storage	Ultrabay enhanced DVD/CD-RW combo drive, Blu-ray combo drive or Blu-ray burner
Operation System	Windows® 7 Professional 32 bits
USB 2.0	Two USB ports version 3.0, one Powered USB port version 2.0
Floppy 3.5"	No

Product Details in tested sample	
Product	ThinkPad W510 (Model 4391-A45)
Processor	Intel® Quad Core i7 820QM (1.73GHz 1066MHz 8MBL3)
Memory	4 GB PC3-10600 DDR3 SDRAM 1333MHz SODIMM Memory
Hard disc	320GB SATA
Graphics	NVIDIA Quadro FX 880M Graphics with 1GB DDR3 memory
Network	Intel 82577LM Gigabit Network Connection and Intel WiFi Link 5300
Storage CD-ROM	DVD burner, SATA 1.5Gb/s, 9.5mm Ultrabay slim
Operation System	Windows® 7 Professional 32 bits

Engineering	
Configuration and installation	No

ThinkPad W510

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The ThinkPad W510 notebook is engineered with Lenovo's Enhanced Experience for Windows® 7, which means faster startup and shutdown time, along with increased productivity for business with new hardware and software innovations.

The Lenovo ThinkPad W510 closely supports the 800xA Extended Automation System Value Propositions as noted below:

800xA Value Proposition Mapping

✓	Reducing Time to Decision and Action <ul style="list-style-type: none">- Detailed performance information can be retrieved.- World wide standard product
✓	Engineering for Maximum Performance <ul style="list-style-type: none">- High level configuration- Number of options available for different configuration needs- Several CPU models depending on performance and cost
✓	Reducing Risk through High Integrity Automation <ul style="list-style-type: none">- Reduced risk through reduced number of components- Mechanical form factor improves lifetime
✓	Investment Enhancement through Evolution <ul style="list-style-type: none">- Continous development of components to fit in existing Lenovo product family.