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## ThinkPad Edge E420, E520 Top Options

Turning PCs into Solutions -  
Options and Accessories

March 2011



# ThinkPad Edge E420, E520 Top Options

Top Options	Part Number
Lenovo USB 2.0 Port Replicator with Digital Video	0A33942
Lenovo 90W Ultraslim AC/DC Combo Adapter	41R4493
ThinkPad 90W AC Adapter	40Y7659
ThinkPad 65W AC Adapter	40Y7696
ThinkPad 65W AC Adapter with USB Hub	57Y4600
ThinkPad Battery 25 (4 cell)	51J0498
ThinkPad Battery 25+ (6 cell)	51J0499
ThinkPad Battery 25++ (9 cell)	51J0500
ThinkPad Basic Case	43R9113
ThinkPad Business Topload Case	43R2476
ThinkPad Business Backpack	43R2482
Wenger Slim Case for Lenovo	57Y4273
Wenger Deluxe Slim Case for Lenovo	57Y4272
Wenger Backpack for Lenovo	57Y4271
1GB PC3-8500 DDR3-1066 SODIMM Low-Halogen Memory	55Y3706
2GB PC3-8500 DDR3-1066 SODIMM Low-Halogen Memory	55Y3707
4GB PC3-8500 DDR3-1066 SODIMM Low-Halogen Memory	55Y3711
Kensington Security Cable Lock by Lenovo	73P2582
Kensington Twin Head Cable Lock from Lenovo	45K1620
ThinkPad Bluetooth Laser Mouse, ThinkPad Travel Mouse	41U5008, 31P7410
ThinkPad In-Ear Headphones	57Y4488
Lenovo USB-to-DVI Monitor Adapter	45K5296

# Lenovo USB 2.0 Port Replicator with Digital Video

- Convenient cable management & connectivity for monitor, LAN, 4 USB devices
- Sleek and discrete vertical design
  - Height: 174 mm (6.9 in)
  - Width: 158 mm (6.2 in)
  - Depth: 57 mm (2.2 in)
  - Weight: 340g (0.7 lbs)
- Attaches via USB
- 4 USB 2.0 ports (2 Front, 2 Rear)
- DVI-I Monitor port supporting 1920 x 1200 WUXGA resolution
  - Includes HD 1080p (1920 x 1080)
- Attach VGA analog or DVI digital monitor
- Stereo audio in, stereo audio out
- Integrated Ethernet
- AC Power adapter
- Supports Windows XP, Vista, 7

**Note:** For single core processor models, use of the USB Port Replicator to display high definition video content on an external display is not recommended.



**Lenovo USB 2.0 Port Replicator with Digital Video (0A33942)**

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# Lenovo 90W Ultraslim AC/DC Combo Adapter

- Power your notebook in the office, at home, on the road, or in the air
- Simultaneously charge cell phones or PDA devices
- Small, lightweight: 400 grams (0.88lbs)



- Works with many ThinkPad and Lenovo notebooks
- Included 20V power tip (41R4484)
- Optional 16V (41R4343) and 19V (41R4319) power tips
- Includes Generic USB device tip and Dual Charging Cable (41R4345)



**AC Configuration**



**DC Configuration**

**Lenovo 90W Ultraslim AC/DC Combo Adapter**

**(41R4493)**

# ThinkPad AC Adapters

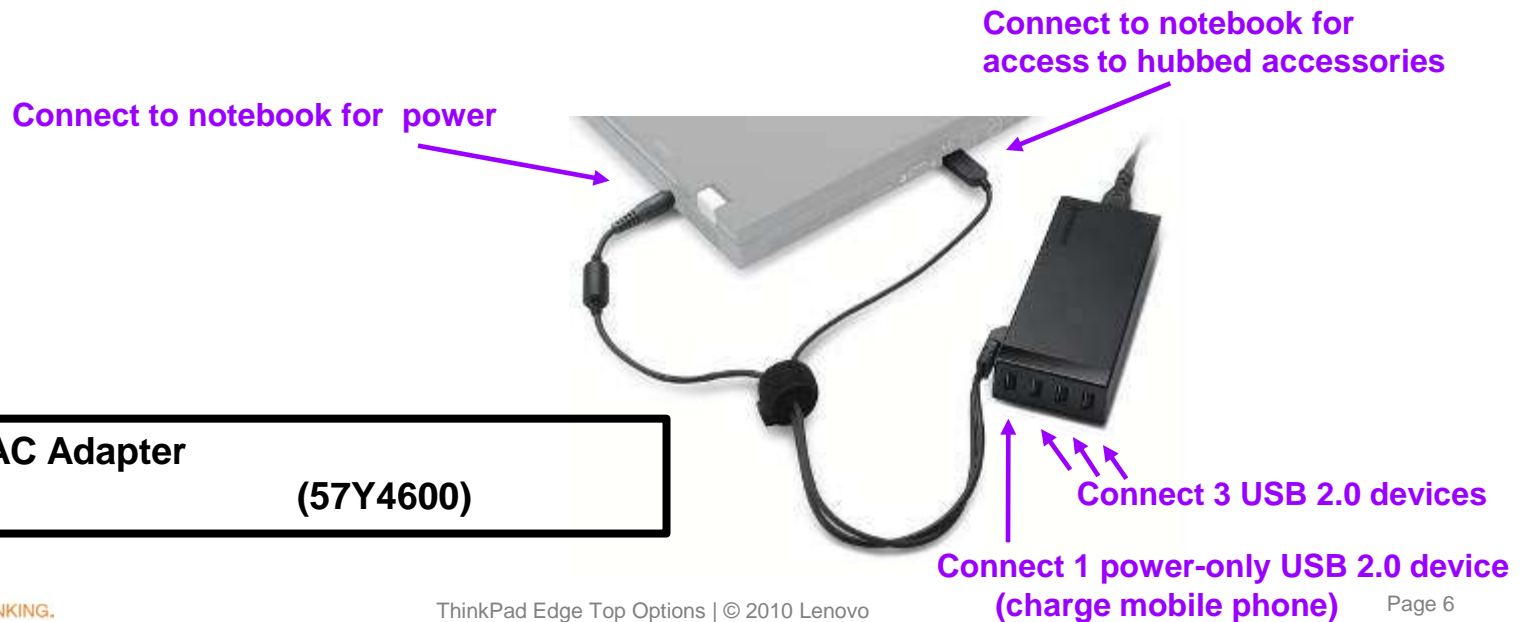
- Have a spare power adapter at home, or your carry case
- 90W AC Adapter
  - More power, less time charging
  - 360 g (0.79lbs)
- 65W AC Adapter
  - Smallest adapter available from ThinkPad
  - 260 g (0.57lbs.)
- Note: 65W AC adapter supports models with integrated graphics only  
Those with discrete should use the 90W AC Adapter



<b>ThinkPad and Lenovo 90W AC Adapter</b>	<b>(40Y7659)</b>
<b>ThinkPad and Lenovo 65W AC Adapter</b>	<b>(40Y7696)</b>

# ThinkPad 65W AC Adapter with USB Hub

- Staying powered and connected to your workspace is now more convenient
- Combines a 65W notebook AC power adapter with a 4-port powered USB hub
  - 3 standard USB 2.0 ports
  - 1 power-only USB 2.0 port – Ideal for charging mobile phones
- For use at home or on the road
- Use the flexible Lenovo Power Hub to
  - Charge your notebook battery
  - Access USB accessories (mice, keyboards, memory keys) in your workspace
  - Charge those USB accessories even when your notebook is away



**ThinkPad 65W AC Adapter  
With USB Hub**

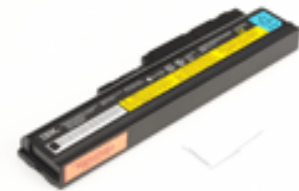
**(57Y4600)**

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# ThinkPad Batteries

- ThinkPad Battery 25 (4 cell)
  - 32 Watt-hour (Wh) Battery Energy
  - 240 g (0.43 lb) weight
  - ThinkPad External Battery Charger (40Y7625) compatible
- ThinkPad Battery 25+ (6 cell)
  - 57 Watt-hour (Wh) Battery Energy
  - 340 g (0.75 lb) weight
  - ThinkPad External Battery Charger (40Y7625) compatible
- ThinkPad Battery 25++ (9 cell)
  - 94 Watt-hour (Wh) Battery energy
  - 500 g (1.10 lb) weight
  - ThinkPad External Battery Charger (40Y7625) compatible



<b>ThinkPad Battery 25 (4 cell)</b>	<b>(51J0498)</b>
<b>ThinkPad Battery 25+ (6 cell)</b>	<b>(51J0499)</b>
<b>ThinkPad Battery 25++ (9 cell)</b>	<b>(51J0500)</b>

# ThinkPad Carrying Cases

- Easily transport and protect your ThinkPad against bumps and jostles

- **ThinkPad Basic Case**

- Supports up to 15.6" Wide
- Nylon construction, Foam padded PC compartment
- Foam Shoulder Strap, Luggage Handle Attachment



- **ThinkPad Business Topload Case**

- Supports up to 15.6" Wide
- Top Grade Nylon, SafePORT Air Protection
- Foam Shoulder Strap, Luggage Handle Attachment



- **ThinkPad Business Backpack**

- Supports up to 15.6" Wide
- Top Grade Nylon, SafePORT Air Protection System
- Padded mesh, breathable shoulder straps
- Hidden security pocket built into back padding of case



**ThinkPad Basic Case**

**(43R9113)**

**ThinkPad Business Topload Case**

**(43R2476)**

**ThinkPad Business Backpack**

**(43R2482)**

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# Wenger Carrying Cases for Lenovo

- Easily transport and protect your ThinkPad against bumps and jostles
- Wenger Slim Case for Lenovo
  - “Slim & Light” neoprene material for on-the-go traveling
  - Single compartment for your laptop
  - Trolley Strap
- Wenger Deluxe Slim Case for Lenovo
  - “Slim & Light” nylon material for on-the-go traveling
  - Separate notebook compartment and folder compartment
  - Trolley strap
- Wenger Backpack for Lenovo
  - Case Base stabilizing platform allows case to stand tall on the ground
  - Separate notebook compartment and folder compartment
  - Easy access pocket for quick access to: keys, plane tickets, MP3 player
  - Dual mesh side pocket
  - Trolley strap



**Wenger Slim Case for Lenovo**

**(57Y4273)**

**Wenger Deluxe Slim Case for Lenovo**

**(57Y4272)**

**Wenger Backpack for Lenovo**

**(57Y4271)**

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# Lenovo Memory Options

- SODIMM Memory
- Lowest-cost method to boost system performance
  - Enhance multi-tasking usability
  - Extend system useful life
  - Ensure systems compatibility
- 25-Pack Memory:
  - Reduced packaging: cardboard, plastic, publications
  - Lower, per unit, module cost



Single / Individual Pack



25-Pack Memory

1GB PC3-8500 DDR3-1066 SODIMM Memory	(55Y3706)
2GB PC3-8500 DDR3-1066 SODIMM Memory	(55Y3707)
4GB PC3-8500 DDR3-1066 SODIMM Memory	(55Y3711)
1GB PC3-8500 DDR3-1066 SODIMM Memory – 25 pack	(57Y4385)
2GB PC3-8500 DDR3-1066 SODIMM Memory – 25 pack	(57Y4386)

*ThinkPad Edge has 2 SODIMM slots for 8GB maximum memory*

# Kensington Security Cable Locks by Lenovo

- Secure your ThinkCentre and ThinkVision monitor
- Easy to install and use for office environments
- Strong, steel composite cable with carbon tempered steel core:
  - MicroSaver: 6.0-feet, 5.5 mm thick cable
  - Twin Head: 7.0-feet, 5.5 mm thick cable
- Patented T-bar lock provides superior lock strength in the security slot and theft protection
- Sleek styling and design using a rotating head and pivoting cable allows you to easily connect and position the lock
- Attached rubber cable tie for cable management
- Twin Head Cable Lock to secure two devices
  - 2nd lock “floats”, “moves” along the cable for user preference
- Attaching the cable lock to any ThinkCentre form factor not only secures the machine to the work area, but it also prevents users from opening the chassis itself!



<b>Kensington Microsaver Security Cable Lock by Lenovo</b>	<b>(73P2582)</b>
<b>Kensington Twin Head Cable Lock from Lenovo</b>	<b>(45K1620)</b>

# ThinkPad Mice

- ThinkPad Bluetooth Laser Mouse
  - Portable, ambidextrous design for both right and left-hand usage
  - Unique soft-touch finish for the ultimate in all-day comfort
  - High definition Laser sensor resolution for precise control
  - Tilt wheel for 4-way scrolling
  - Quick and easy pairing with Lenovo’s exclusive “EasyPair” Software
  - Advanced Power management system
    - Switches to low power mode during periods of inactivity
    - Also includes an On-Off Switch
  - Unique battery compartment with hinge design
    - Note: Requires a Bluetooth enabled system or an optional USB Bluetooth Receiver
- ThinkPad USB Travel Mouse
  - Portable, ambidextrous design for both right and left-hand usage
  - Unique soft-touch finish for the ultimate in all-day comfort
  - High definition optical sensor resolution for precise control
  - Programmable scroll wheel acts as a 3rd button



ThinkPad Bluetooth Laser Mouse	(41U5008)
ThinkPad USB Travel Mouse	(31P7410)

# ThinkPad In-Ear Headphones

- High-quality voice and audio performance for internet voice conversations, multimedia applications
- Noise isolating in-ear design
- Well-balanced high and mid range sounds
- Discreet hands-free inline microphone for clear communications
- Three pairs (small, medium, large) of silicone sleeves tips for optimal fit and comfort
- 2 x 3.5mm Jack Adapter included for maximum laptop and desktop compatibility
- Protective carry pouch for storage



**ThinkPad In-Ear Headphones**

**(57Y4488)**

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# Lenovo USB-to-DVI Monitor Adapter

- Add another monitor by plugging into a USB port:
  - Maximum resolutions (@32-bit color):
    - 16:10 Wide – 1920 x 1200
    - 16:9 Wide – 2048 x 1152 (with 1920 x 1080 native HDTV support)
- Flexibility to add additional monitors to a system
  - Doubling or tripling your visual workspace increases productivity while lowering total cost of ownership
  - One Monitor Adapter is needed for each monitor
- DVI digital video output for sharpness and clarity
  - DVI-to-VGA adapter included
  - Supports HD video playback of non-encrypted content
- All monitors are independent:
  - Extended “stretch” desktop and mirror “clone” modes
  - Landscape, portrait viewing: 90°, 180°, 270° image rotation
- Does not require an external power adapter
- Windows XP, Vista 32/64bit, 7 support







1<sup>st</sup> Monitor: Active ThinkPad Display  
2<sup>nd</sup> Monitor: Attached to VGA port  
3<sup>rd</sup> Monitor: Attaches to 1<sup>st</sup> USB-to-DVI Adapter  
4<sup>th</sup> Monitor: Attaches to 2<sup>nd</sup> USB-to-DVI Adapter

**Note:** High-bandwidth Digital Content Protection (HDCP) is not supported

**Lenovo USB-to-DVI Monitor Adapter (45K5296)**

# ThinkPad Edge E420, E520 Top Options – Multiple Monitors

Configuration	Hardware Requirements
<p>One monitor with ThinkPad VGA</p> 	<ul style="list-style-type: none"> <li>• One analog monitor attached to ThinkPad VGA port or HDMI port</li> <li>• ThinkPad display is enabled.</li> </ul>
<p>Two monitors attached via ThinkPad VGA and HDMI Port</p> 	<ul style="list-style-type: none"> <li>• One monitor attached to ThinkPad VGA port and HDMI               <ul style="list-style-type: none"> <li>– Maximum VGA analog resolution: 2048 x 1536</li> <li>– Maximum HDMI analog resolution: 2048 x 1536</li> </ul> </li> <li>• ThinkPad display is disabled (screen is blank).</li> </ul>
<p>Three via ThinkPad VGA, HDMI and USB Port Replicator</p> 	<ul style="list-style-type: none"> <li>• One monitor attached to ThinkPad VGA port and HDMI               <ul style="list-style-type: none"> <li>– Maximum VGA analog resolution: 2048 x 1536</li> <li>– Maximum HDMI analog resolution: 2048 x 1536</li> </ul> </li> <li>• One monitor attached to ThinkPad 2.0 USB Port Replicator with Digital Video               <ul style="list-style-type: none"> <li>– Maximum resolution: 1920 x 1200</li> </ul> </li> <li>• ThinkPad display is disabled (screen is blank).</li> </ul>
<p>ThinkPad Display, three external monitors, no docking</p> 	<ul style="list-style-type: none"> <li>• ThinkPad display is enabled, monitor attached to ThinkPad VGA or DisplayPort**</li> <li>• Two Lenovo USB-DVI Monitor Adapter (45K5296) adapters attached to two USB ports               <ul style="list-style-type: none"> <li>• One analog or digital monitor attached to each USB-to-DVI adapter</li> <li>• Maximum resolution: 1920 x 1200</li> </ul> </li> </ul>

**thank you** grazie **merci** danke **grazias** 謝謝 СПАСИБО  
gracias **obrigado** ありがとう **dank** takk **bedankt** dakujem

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