ThinkPad S531

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ThinkPad S531 20B0 (TopSeller)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm		PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
20B00004++	i5-3337U	4+2GB	15.6" HD	720p	500G	7200	Intel 2230 + BT	24G	Black	Finger	4	62.8	Win8 64	06/13
20B00003++	i3-3227U	2+2GB	15.6" HD	720p	500G	7200	TP 11a/b/g/n + BT	None	Black	Finger	4	62.8	Win7 Pro64	06/13
20B00006++	i5-3337U	2+2GB	15.6" HD	720p	500G	7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	62.8	Win7 Pro64	06/13
20B00051++	i3-3217U	2+2GB	15.6" HD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	4	62.8	Win7 Pro64	07/13
20B00008++	i5-3337U	2+4GB	15.6" FHD	720p	128G	SSD	TP 11a/b/g/n + BT	None	Black	Finger	4	62.8	Win7 Pro64	07/13

Country Code"++" : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)
Note: models listed above might not be available in all WE countries

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; one spindles*
Processor	**Intel® Core™ i3-3217U processor (2 cores, 1.80GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology
	Intel Core i3-3227U processor (2 cores, 1.90GHz, 3MB Cache), **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology
	Intel Core i5-3337U processor (2 cores, 1.80GHz, 3MB cache), **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology
Memory	10GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, 2GB memory on board, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high
	Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	*Some:* M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
	Some: **15.6"** (396mm) **FHD (1920x1080) color**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external digital monitor support via HDMI™ (supporting HDCP to output protected content); *Max external resolution:* 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	15.6"W (WxDxH): 14.92" x 9.94" x 0.81"; 379.0mm x 252.4mm x 20.7mm
Weight[2]	*4-cell:* from 5.06 lb (2.29kg)
Case color	Black (top); black bottom
Case material	Sand Blast Aluminum
Battery - type[37]	Li-Polymer 4-cell (62.8Whr)
Battery - life[10]	*MobileMark 2007:* *Windows 7:* up to 10.5 hr
	MobileMark 2012: *Windows 8:* up to 7.2 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0 (one powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	*Some:* 11a/b/g/n, PCIe Half Mini Card, ThinkPad a/b/g/n, 2x2, Wi-Fi / BT combo adapter
	Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi / BT combo adapter
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, ALC3202 codec / JBL® stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit

Preloaded applications (only some listed)
 - **Windows 7 models**
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Adobe® Reader®

 - **Windows 8 models**
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

 - **All models** (exclude DOS models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
ENERGY STAR® compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

See footnotes for more detailed information

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Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm		PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
20B0004L++	i7-3537U	2+8GB	15.6" FHD	720p	256G	SSD OPAL	Intel 2230 + BT	None	Black	Finger	4	62.8	Win8 64	07/13
20B00050++	i5-3337U	2+4GB	15.6" FHD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	4	62.8	DOS-Lic.	07/13
20B0004K++	i7-3537U	2+8GB	15.6" FHD	720p	256G	SSD OPAL	TP 11a/b/g/n + BT	None	Black	Finger	4	62.8	Win7 Pro64	07/13

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Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; one spindles*
Processor	**Intel® Core™ i5-3337U processor (2 cores, 1.80GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology **Intel Core i7-3537U processor (2 cores, 2.0GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	10GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, 2GB memory on board, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	None
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio *Some:* **15.6"** (396mm) **FHD (1920x1080) color**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**AMD Radeon™ HD 8670M Graphics**, **2GB** memory external digital monitor support via HDMI™; *Max external resolution:* 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	15.6W" (WxDxH): 14.92" x 9.94" x 0.81"; 379.0mm x 252.4mm x 20.7mm
Weight[2]	*4-cell:* from 5.06 lb (2.29kg)
Case color	Black (top); black bottom
Case material	Sand Blast Aluminum
Battery - type[37]	Li-Polymer 4-cell (62.8Whr)
Battery - life[10]	*MobileMark 2007:* *Windows 7:* up to 8.4 hr *MobileMark 2012:* *Windows 8:* up to 5.9 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0 (one powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)
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M.2 WWAN	None
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Audio support	High Definition (HD) Audio, ALC3202 codec / JBL® stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* DOS-Lic.
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit

Preloaded applications (only some listed, exclude DOS models)
- Windows 7 models
- Access Connections™
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Supports ThinkVantage® technologies

65-watt AC adapter
ENERGY STAR® compliant (exclude DOS models)
RoHS-compliant
International Warranty Service[17]
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See footnotes for more detailed information
WE model(s) announced July 2, 2013

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