Intel® Pentium* 2030M Processor (2 cores, 2.50 GHz, 2MB Cache), Intel HD Graphics, ODRS memory controller (up to 1600MHz). 2000Hz, 3MB cache), Intel HD Graphics 400, DDR3 memory controller (up to 1600MHz). 2000Hz, 3MB cache), Intel HD Graphics 400, DDR3 memory controller (up to 1600MHz). 21 Hz technology intel Core is 3-170M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 400, DDR3 memory controller (up to 1600MHz). HT technology intel Core is 3-130M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 400, DDR3 memory controller (up to 1600MHz). HT technology intel Core is 3-230M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 400, DDR3 memory controller (up to 1600MHz). HT technology intel Core is 3-230M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz). HT technology intel Core is 3-230M processor (4 cores, 2.20GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz). HT technology intel Core is 3-230M processor (4 cores, 2.20GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz). Intel Hurbo Boost 12.0 (3.20GHz), HT technology intel Core is 3-230M processor (4 cores, 2.50GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz). Intel Hurbo Boost 12.0 (3.20GHz), HT technology intel Core is 3-230M processor (4 cores, 2.50GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz). Intel HURbo Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Hurbo Boost 12.0 (3.20GHz), HT technology intel Core is 3-250MHz (3.60GHz), SSS 25 wide is 40GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel HURbo Graphics 4000 memory intel HD Graphics 4000, DR3 memory intel HDR3 memory in			
Dotical Survey of the Comment of the	Positioning Processor	Intel® Pentium® 2030M Processor (2 cores, 2.50 GHz, 2MB Cache), Intel HD Graphics, DDR3 memory controller (up to 1600MHz) Intel Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-3110M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology Intel Core i3-3120M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology Intel Core i3-3130M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models - Access Connections™ - ThinkVantage Power Manager - ThinkVantage Tools - Lenovo SimpleTap - Adobe® Reader® - Windows 8 models - Lenovo Support - Lenovo Companion
Optical SATA disk Some: Solid State Drive (SSD) / SATA 6.0 Cbb/s; 2.5° wide, 7mm high (some: Solid State Drive (SSD) / SATA 6.0 Cbb/s; 2.5° wide, 7mm high (some: Solid State Drive (SSD) / SATA 6.0 Cbb/s; 2.5° wide, 7mm high (some: Solid State Drive (SSD) / SATA 6.0 Cbb/s; 2.5° wide, 7mm high (some: Solid State Drive (SSD) / SATA 6.0 Cbb/s; 2.5° wide, 7mm high (some: Some: Table (solid)) (solid)	Memory		
Widscreen Some: 15.6" (396mm) HD (1366x769) color, anti-glare, LED baddight, 200 nits 169 aspect ratio, 500 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED baddight, 200 nits, 169 aspect ratio, 500 color contrast ratio HD720p resolution, face track, low light sensitive, fixed focus, LED indicator North Optimus "technology, auto-switch between discrete and integrated graphics, NVIDIA Optimus" technology, auto-switch between discrete and integrated graphics, NVIDIA Optimus "technology, auto-switch between discrete and integrated graphics, NVIDIA Optimus" technology, auto-switch between discrete and integrated graphics, NVIDIA Optimus "technology, auto-switch between discrete and integrated graphics, NVIDIA Optimus" technology, auto-switch between discrete and integrated graphics, NVIDIA Pure Video" HD technology, external analog monitor support via HDMI" (supporting HDCP to output protected content); supports dual independent display, Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz Keyboard TrackPoint* TrackPoint* pointing device, Internet Scroll Bar's TrackPoint* pointing device, Internet Scroll Bar's UltraNav", wide touchpad below keyboard, Integrated five buttons, multi-touch None Weight* Case color Case material Battery - tipe** Weight* Case color Acrylontrile-Butadiene-Styrene (ABS) plastic Battery - tipe** Battery - tipe** Multicard Reader* Multicard Reader* Multicard Reader* Multicard Reader* Multicard Reader* Multicard Sade Sade Sade Sade Sade Sade Sade Sad	Optical 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,	
LED backlight, 200 nits, 16:9 aspect ratio, 50:1 contrast ratio Some: 15.6' (396mm) FHD (1920x1080) color, anti-plane, LED backlight, 300 nits, 16:9 aspect ratio, 50:1 contrast ratio HD720p resolution, face track, low light sensitive, fixed tocus, LED indicator Graphics Intel HD Graphics, Intel HD Graphics 3000, Intel HD Graphics 4000 in processor, or NVIDIA* of Optimus* technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA GeForce* 701Mp. PCI Express* x 8, 16B memory, DirectX* 11.1, NVIDIA PureVideo* HD technology, external analog monitor support via VGA DB-15 connector and digital monitor support via VGA DB-15 connector and formal resolution: 2048x1536 (VGA) @ 75Hz; 1920x1200 (HDMI) @ 60Hz Keyboard TrackPoint* Orw, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint* or pointing device, Internet Scroll Bar¹s UltraNav*, wide touchpad below keyboard, integrated five buttons, multi-touch None Dimensions* 15.6W* (WxDxH): 14.84* x 9.84* x 1.05-1.17*; 377 x 250mm x 26.6-29.6mm Acase color Matte black or Matter red (top), trimmed with a thin silver band (side); black bottom Acase color Mobile Intel HM77 Express Chipset Wolght* Cacel (48Whr): up to 6.2 th Coell (48	M.2 SSD		
Intel HD Graphics, Intel HD Graphics 3000, Intel HD Graphics 4000 in processor, or NVIDIA* Optimus** technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, or NVIDIA GeForce* 710M, PCI Express* x 8, 10B memory, DirectX** 11.1, or NVIDIA GeForce* 71740M, PCI Express* x 8, 20B memory, DirectX** 11.1, or NVIDIA GeForce* GT740M, PCI Express* x 8, 20B memory, DirectX** 11.1, or NVIDIA GeForce* GT740M, PCI Express* x 8, 20B memory, DirectX** 11.1, or NVIDIA PureVioled* HD technology, autor to the HDM** yes upporting HDCP to output protected content); supports dual independent display, wax external resolution: 2048x1536 (VGA) @ 75Hz; 1920x1200 (HDMI) @ 60Hz Keyboard TrackPoint* To the HDM** yes upporting HDCP to output protected content); supports dual independent display, wax external resolution: 2048x1536 (VGA) @ 75Hz; 1920x1200 (HDMI) @ 60Hz Keyboard TrackPoint* To the HDM** yes upporting HDCP to output protected content); supports dual independent display, wax external resolution: 2048x1536 (VGA) @ 75Hz; 1920x1200 (HDMI) @ 60Hz Millicard Rose of the HDM** yes upporting HDCP to output protected content); supports wax external resolution: 2048x1536 (VGA) @ 75Hz; 1920x1200 (HDMI) @ 60Hz Mobile Intel HAM7* Express Chipset None Mobile Intel HM7* Express Chipset None Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Mobile Intel HM7* Express Chipset None Multicard Reader Ports Mobile Intel HM7* Express Chipset None Mobile Intel HM7* Express Chipset None Mobile Intel HM7* Express Chipset None Mobile Intel HM7* Express Chipse	_	LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio	Norton™ Internet Security (30 days of virus definitions) Skype™
NVIDIA "Optimus" technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processors, and NVIDIA GeForce" 710M, PCI Express" x 8, 1GB memory, DirectX" 11.1, or NVIDIA GeForce" 7170M, PCI Express" x 8, 2GB memory, DirectX" 11.1, or NVIDIA PureVideo" HD technology, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI" (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz Keyboard TrackPoint" TrackPoint TrackP		1	purchase a product key to activate
TrackPoint pointing device, Internet Scroll Bar¹³ Trouchpad UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch None 15.6W (WxDxH): 14.84* x 9.84* x 1.05-1.17*; 377 x 250mm x 26.6-29.6mm Weight² Gese color Case color Case material Battery - tipe¹³ Battery - life¹⁰ G-cell (strom 5.4 lb (2.46kg) Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium lone f-cell Ge-cell (stWhr): up to 6.2 hr G-cell (stWhr): up to 8.1 hr Mobile Intel HM77 Express Chipset None A-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45) PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n A to wireless, integrated in selected WLAN PCIe Half Mini Card Realtek* RTL8111F Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader on palm rest, swipe sensor		Intel HD Graphics 4000 in processor, and NVIDIA GeForce® 710M, PCI Express® x 8, 1GB memory, DirectX® 11.1, or NVIDIA GeForce® GT740M, PCI Express® x 8, 2GB memory, DirectX® 11.1, NVIDIA PureVideo® HD technology, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz	
377 x 250mm x 26.6-29.6mm 6-cell: from 5.4 lb (2.46kg) Case color Case material Battery - type ³⁷ Battery - life ¹⁰ 6-cell (48Whr): up to 6.2 hr 6-cell (48Whr): up to 8.1 hr Chipset ExpressCard Multicard Reader Ports Wobile Intel HM77 Express Chipset None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45) PCIe Mini Card PCIe WLAN ⁴ One PCI Express Half Mini Card slot Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11a/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 One M.2 Card solt for support of SSD None Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card Ethernet Audio support Bluetooth (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Some: UPEK Fingerprint reader on palm rest, swipe sensor	Keyboard TrackPoint® Touchpad ThinkLight™	TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch	
ExpressCard Multicard Reader Ports None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45) PCIe Mini Card PCIe WLAN⁴ One PCI Express Half Mini Card slot Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11a/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 One M.2 Card 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, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None Fingerprint reader None None None UPEK Fingerprint reader on palm rest, swipe sensor	Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	377 x 250mm x 26.6-29.6mm 6-cell: from 5.4 lb (2.46kg) Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell 6-cell (48Whr): up to 6.2 hr	
Multicard Reader Ports	Chipset	Mobile Intel HM77 Express Chipset	
PCIe WLAN⁴ Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/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 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 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 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 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 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter Some: Supports ThinkVantage® technologie Sowatt/90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 6.0-compliant RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support	ExpressCard Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077)	
M.2 Card M.2 WWAN 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, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Security Chip Fingerprint reader Some: UPEK Fingerprint reader on palm rest, swipe sensor Supports ThinkVantage® technologie 65-watt/90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 6.0-compliant RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support	PCIe Mini Card PCIe WLAN ⁴	Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2,	
Ethernet Audio support Audio	M.2 Card M.2 WWAN Bluetooth™	One M.2 Card slot for support of SSD None	Supports ThinkVantage® technologies
Audio support High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Security chip Fingerprint reader None Fingerprint reader High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / EPEAT™ Gold rating ENERGY STAR® 6.0-compliant RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day¹® toll-free support	Ethernet	Realtek® RTL8111F Gigabit Network Connection	65-watt/90-watt AC adapter
Fingerprint reader Some: UPEK Fingerprint reader on palm rest, swipe sensor 24 hour x 7 day ¹⁸ toll-free support	Audio support Security	Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	EPEAT™ Gold rating ENERGY STAR® 6.0-compliant RoHS-compliant
	Fingerprint reader		
	Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	