Memory 8GB max² / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket Optical None SATA disk 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 high removable, upgradable, Active Profestion System*  M.2 SSD Some: M.2 Solid State Drive (SSD), wide, 7mm high, removable, upgradable, Active Profestion System*  M.2 SSD Some: 14.0° (355mm) HD (1600x900) color, anti-glare, Leb backlight, 250 mits, 169 aspect ratio Some: 14.0° (355mm) HD - (1600x900) color, anti-glare, Leb backlight, 250 mits, 169 aspect ratio Some: 14.0° (355mm) HD - (1600x900) color, anti-glare, Leb backlight, 220 mits, 169 aspect ratio Some: 14.0° (355mm) HD - (1600x900) color, anti-glare, Leb backlight, 220 mits, 169 aspect ratio Some: 14.0° (355mm) HD - (1600x900) color, anti-glare, Leb backlight, 220 mits, 169 aspect ratio Some: 14.0° (355mm) HD - (1600x900) color, anti-glare, Leb backlight, 220 mits, 169 aspect ratio All Dragor resolution, involving the second of the profession of	Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; one spindles 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 Intel Core i5-3437U processor (2 cores, 1.90GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system <sup>20</sup> - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit  Preloaded applications (only some listed) - Windows 7 models • Access Connections™ This Montage Page Manager
SATA disk Some: Solid State Drive (SSD) / SATA 6.0Gbs, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gbs, 2.5" wide, 7mm high removable, upgradable, Active Protection System**  M.2 SSD Some: M.2 Solid State Drive (SSD) / sin M.2 Card slot  Widescreen display  Widescreen display  All Disk Drive / SDD, via M.2 Card slot  Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 mits, 16-9 sapect ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 mits, 16-9 sapect ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 mits, 16-9 sapect ratio Amb Radeon** HD 8670M Graphics, 1GB memory external digital monitor support via HDMI** (supporting HDCP to output protected content); Max external resolution: 1920x1200 (HDMI) @ 60Hz  Keyboard TrackPoint** TrackPoint pointing device, Internet Scroll Bar** TrackPoint pointing dev	Memory		ThinkVantage Tools
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 hits, 16:9 aspect ratio   Some: 14.0" (355mm) HD + (1600x890) color, anti-glare, LED backlight, 200 hits, 16:9 aspect ratio   Some: 14.0" (355mm) HD + (1600x890) color, anti-glare, LED backlight, 220 hits, 16:9 aspect ratio   Some: 14.0" (355mm) HD + (1600x890) color, anti-glare, 10-point touch screen   HD720p resolution, low light sensitive, fixed focus, LED indicator   HD720p resolution, low light sensitive, fixed focus, LED indicator   AMD Radeon** HD 8670M Graphics, 1GB memory external digital monitor support via HDMI** (supporting HDCP to output protected content); Max external resolution*. 1920x1200 (HDMI) @60Hz   Grow, spill-resistant, multimedia Fn keys, LED backlight TrackPoint**		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 high,	<ul><li>Lenovo Support</li><li>Lenovo Companion</li></ul>
display  LED backlight, 220 nits, 16:9 aspect ratio  Some: 1.0" (355mm) HD- (1600x90) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio  Camera  HD720p resolution, low light sensitive, fixed focus, LED indicator  Intel HD Graphics 4000 in processor, or AMD Radeon* HD 8670M Graphics, 1GB memory external digital monitor support via HDMIP* (supporting HDCP to output protected content); Max external resolution: 1920x1200 (HDMI)@60Hz  Keyboard TrackPoint* TrackPoint pointing device, Internet Scroll Bar*a Touchpad ThinkLight**  None  14.0W* (WxDxH): 13.11* x 8.86* x 0.81*; 332.8mm x 224.8mm x 20.3mm 4-cali: from 3.92 ib (1.78kg) Black or silver (top); black bottom Sand Blast Aluminum Sand Blast Aluminum Sand Blast Aluminum MobileMark 2012: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:9 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windows 8: up to 5:0 hr  Mobile Mark 2021: Windo		Some: M.2 Solid State Drive (SSD), via M.2 Card slot	Lenovo Cloud Storage
Intel HD Graphics 4000 in processor, or AMD Radeon™ HD 8670M Graphics, 1GB memory external digital monitor support via HDMI™ (supporting HDCP to output protected content);   Max external resolution: 1920x1200 (HDMI) @ 60Hz	display	LED backlight, 200 nits, 16:9 aspect ratio  Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio  Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, 10-point touch screen LED backlight, 220 nits, 16:9 aspect ratio	<ul> <li>ThinkVantage System Update</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> <li>Skype™</li> <li>Microsoft Office preloaded;</li> </ul>
TrackPoint pointing device, Internet Scroil Bar¹³  Touchpad  UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch None  Dimensions³  Weight² Case color Case material Battery - life¹⁰  Mobile Mark 2007: Windows 7: up to 9.1 hr MobileMark 2012: Windows 8: up to 5.9 hr  Chipset ExpressCard Multicard Reader Ports  PCIe Mini Card PCIe Mini Card PCIe WLAN⁴ M.2 Card M.2 WWAN Bluetooth 1a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2  M.2 Card M.2 WWAN Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card Bluetooth™ Bluetooth™ Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card Ethernet Audio support Fingerprint reader on palsm rest, swipe sensor  TrackPoint pointing device, Internet Scroil Bar¹³  14.0W* (WxDxH): 13.11* x 8.86* x 0.81*; 332.8mm x 224.8mm x 20.3mm  4-cell: from 3.92 lb (1.78kg)  Black or silver (top); black bottom Sand Blast Aluminum Li-Polymer 4-cell (46Whr) MobileMark 2007: Windows 7: up to 9.1 hr MobileMark 2007: Windows 8: up to 5.9 hr  Mobile Intel HM76 Express Chipset None  4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one USB 3.0, (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)  One PCI Express Mini Card slot 11a/b/g/n, PCIe Half Mini Card slot 11a/b/g/n, PCIe Half Mini Card Supports ThinkVantage® technologies 65-watt AC adapter ENERGY STAR® compliant RoHS-compliant International Warranty Service¹¹	Graphics	Intel HD Graphics 4000 in processor, or  AMD Radeon™ HD 8670M Graphics, 1GB memory external digital monitor support via HDMI™ (supporting HDCP to output protected content);	purchase a product key to activate
Weight²       4-cell: from 3.92 lb (1.78kg)         Case color       Black or silver (top); black bottom         Case material       Sand Blast Aluminum         Battery - type³7       Li-Polymer 4-cell (46Whr)         MobileMark 2007:       Windows 7: up to 9.1 hr         MobileMark 2012:       Windows 8: up to 5.9 hr         Chipset       Mobile Intel HM76 Express Chipset         None       None         Multicard Reader       4-in-1 reader (MMC, SD, SDHC, SDXC)         One USB 3.0, one USB 3.0, opwered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)         PCIe Mini Card       One PCI Express Mini Card slot         PCIe WLAN⁴       11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2         M.2 Card       One M.2 Card slot for support of WWAN card or SSD         None       Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card         Bluetooth™       Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card         Bluetooth™       Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card         Bluetooth Weigh Home Theater® v4 / dual array microphone, combo audio/mic jack         Power-on password, hard disk password, supervisor password, security keyhole         Fingerprint reader       Fingerprint reader on palm rest, swipe sensor	TrackPoint® Touchpad	TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch	
ExpressCard Multicard Reader Ports	Weight <sup>2</sup> Case color Case material Battery - type <sup>37</sup>	4-cell: from 3.92 lb (1.78kg) Black or silver (top); black bottom Sand Blast Aluminum Li-Polymer 4-cell (46Whr) MobileMark 2007: Windows 7: up to 9.1 hr	
PCIe WLAN⁴ M.2 Card M.2 Card M.2 WWAN None Bluetooth™ Bluetooth™ Realtek® RTL8111F Gigabit Network Connection Audio support High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack Security Security chip Fingerprint reader Fingerprint reader Fingerprint reader  11a/b/g/n, PiCle Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2  M.2 WWAN None  Supports ThinkVantage® technologies  Supports ThinkVantage® technologies  65-watt AC adapter ENERGY STAR® compliant RoHS-compliant International Warranty Service¹ 724 hour x 7 day¹® toll-free support	ExpressCard Multicard Reader	None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one USB 3.0 (powered), OneLink Docking port (supports optional 4X10A06077)	
Ethernet Realtek® RTL8111F Gigabit Network Connection  Audio support High Definition (HD) Audio, Conexant 20671 codec / 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  Trusted Platform Module, TCG 1.2-compliant  Fingerprint reader Fingerprint reader on palm rest, swipe sensor  Supports IninkVantage® technologies  65-watt AC adapter ENERGY STAR® compliant RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support	PCIe WLAN <sup>4</sup> M.2 Card M.2 WWAN	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2 One M.2 Card slot for support of WWAN card or SSD None	
Audio support  High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack Security Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Fingerprint reader on palm rest, swipe sensor  High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support		Realtek® RTL8111F Gigabit Network Connection	Supports ThinkVantage® technologies
Z+ flodi x / day tolifice support	Audio support Security Security chip	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	ENERGY STAR® compliant RoHS-compliant International Warranty Service <sup>17</sup>

See footnotes for more detailed information