

Lenovo® ThinkPad X230 Tablet



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ThinkPad X230 Tablet (3437)

| Type-model Proces | Widescreen ssor Memory display (| Disk SATA Camera GB [®] rpm | Optical in UltraB | ThinkPad Ultrab Series 3 | Backlit key- board | PCIe Mini Card WLAN | Mini | Cle Card /AN | | Glo Intel vPro | obal (0 GMP (P) | Pre- | Ann Date mm/yy) |
|---|---|--|---|---|------------------------------|--|---------------------------------|--|---|--|------------------------|--|--|
| 3437-2YG i7-352 3437-2WG i5-332 3437-2TG i5-332 3437-2SG i5-332 3437-2AG i5-332 3437-23G i7-352 3437-22G i5-332 | 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Out 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Out | 720p 500G 7200 720p 500G 7200 720p 320G 7200 720p 320G 7200 720p 320G 7200 720p 180G SSD 720p 320G 7200 720p 500G 72 | Optional DVD±RW Optional DVD±RW | Optional UltraBase UltraBase | None None None None | Intel 6205 ²⁸ Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 | WWA WWA WWA WWA WWA | IN upg | 6 6 6 6 6 6 | vPro vPro vPro vPro vPro vPro vPro vPro | G G G G G | Pro 64 Pro 64 Pro 64 Pro 64 Pro 64 Pro 64 Pro 64 Pro 64 | 06/12 06/12 06/12 06/12 06/12 06/12 |
| 3437-2ZG i5-332 | OM 4GBx1 12.5" HD <i>Out</i> | 720p 128G SSD (| | • | None | Intel 6205 | WWA | N upg | 6 | vPro | G I | Pro 64 | 07/12 |
| | | | mmeu wa | ананц | | | | | | | | - 00 | |
| Positioning Processor | Convertible tablet ultraportable Intel® Core™ i5-3320M proces DDR3 memory controller (up Intel Core i7-3520M proces DDR3 memory controller (up | essor (dual-core, 2.6 to 1600MHz), Intel T sor (dual-core, 2.90 | Turbo Boos GHz, 4MB | st 2.0 (3.30 8 Cache) , I | GHz), I n tel HD | HT technolog Graphics 40 | 000, y 100, F | Preload Genu Profe Ready to Some lis | ine V ssior o in: | Vindow nal 64 | s® 7 ¯ | | |
| Memory | 16GB max ⁷ / PC3-12800 160 dual-channel capable, two 20 | | | | | | • | Resci Passi | ue ár | | , | TM | |
| Optical Ultrabay SATA disk | in optional or standar | es in optional or stand SD) / SATA 6.0Gb/s, 2 | lard Think 2.5" wide, 7 e, 7mm hig lard Drive, | Pad Ultraba 7mm high gh, Active F , supports | Protection | on System™ | 32) i | Preload isted) Norto (30 da Acces Think | n™ I ays c ss Co | nternet of virus onnection | Secu defini ons™ | urity 20 itions) | 12 |
| mSATA™ SSD | None | | | | | | • | Think | Vant | age To | ols | • | |
| Widescreen display | anti-glare display LED backlight, 3 1.2% reflectivity, |) HD (1366x768) TFT with scratch resistar 00 nits, 16:9 aspect re multiple anti-reflectiv | nt Corning atio, 500:1 ity layers, | contrast r | atio, | liabt | | mode Think Adob | ingerprint Software (fingerprint lodels) hinkVantage System Update dobe® Reader® licrosoft® Office preloaded; | | | | |
| | | pect ratio, 500:1 cont | rast ratio, | IPŠ, | D Dack | lignt, | | purch | ase a | a produ | ict ke | y to act | ivate |
| | MultiTouch screen supports pen & five-finger gesture All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom • Skype™ for Windows | | | | | | | | | | | | |
| Camera | HD720p resolution, wide view | | isitive, face | e tracking, | fixed to | cus | | | | | | | |
| Graphics | Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | | | | | | | | | | | | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 6-row, 84-key, ThinkVantage TrackPoint pointing device, "I UltraNav™, buttonless touch None | Press-to-Select," Inte | rnet Scroll | l Bar¹³, mag | gnifying | | | Support | e Th | ink\/an | tane® | techno | logies |
| Dimensions ³ | without UltraBase; 3-cell: 1 | 2.0" x 9.0" x 1.1-1.23 | "; 305mm | x 228.7mn | ı x 27-3 | 1.3mm | | | | | | | |
| | 3-cell: from 3.67 lb (1.66kg); Display cover: Magnesium Li-Polymer 3-cell or Li-lon 6-c None | + PCABS; Botto cell, HW Authentication | om: Magr on; optiona | nesium allo | y battery | as 2nd batte | y | ThinkPad Ultrabase Series 3 Provides desktop expansion and cable management for X230 and X230 Tablet | | | | | and and |
| Battery - life ¹⁰ | 3-cell (30Whr): up to 4.7 hr; external battery (64Whr): up | to 10.2 hr; 6-cell pl | | al battery: u | p to 20 | .1 hr | | | or X | 230 Tab | olet fo | r travel | ing |
| Chipset Ultrabase Multicard Reader ExpressCard Smart Card Read Ports | Two USB 3.0, one powered l | Series 3 (see right sid DXC, MMC) expressCard/54) JSB 2.0, | , | | | | | Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side Other features: Power button (front) Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g | | | | | Slim |
| PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN SIM card | external monitor (VGA DB-15 Two PCI Express Mini Card s 11a/b/g/n, PCIe Half Mini Ca Wireless WAN upgradable None | slots | ` | , | | | • | | | | | | ink |
| Modem Bluetooth™ Ethernet Intel AMT | None Bluetooth 4.0 wireless Intel 82579LM Gigabit Netwo Intel Active Management Tec | | sville), PH | Y, PCle x1 | | | • | | | | | | |
| Audio support Security Security chip | High Definition (HD) Audio, F volume up, down, mute butto Power-on password, hard dis Trusted Platform Module, TC AuthenTec fingerprint reader LED indicator, Power On Aut | Realtek [®] ÅLC3202 co ons / dual array microp sk password, supervis G 1.2-compliant r (right base of display | phone, com sor passwo y), used in | nbo audio/r ord, securi tablet/note | nic jack ty keyho | jack ENERGY STAR® 5.0-compliant ceyhole GREENGUARD® certified BOHS-compliant | | | | | | | |
| Limited warrantv ¹² | 3-years/1-yr battery - depot r | | | , , | e | | | | | warrar | | | ,, t |
| San footbacks for more detailed information | | | | | | | | | | | | | |

ThinkPad X230 Tablet (3438) - Onsite

| Type-model Processor Memory display GB® rpm UltraBase Series 3 board WLAN WWAN SIM card cells vPro (P) (mm/yy) 3438-3UG i5-3320M 4GBx1 12.5" HD Multi 320G 7200 DVD±RW UltraBase None Intel 6205 ²⁸ WWAN upg None 6 vPro G P 06/12 3438-2BG i5-3320M 4GBx1 12.5" HD Multi 500G 7200 Optional Optional Backlit Intel 6205 WWAN upg None 6 vPro G P 06/12 | | Widescreen | Disk Optica SATA in | I ThinkPad Ultrabase | Backlit key- | PCle Mini Card | PCIe Mini Card | | Bat- | Glo Intel | | Ann Date |
|---|--|--|--|---|-------------------------------------|--------------------------------|-------------------------|---|---|-------------------------------|-------------------|----------------|
| 9489-976 G-93300M 46Bht 12-5** HID Multi 900G 7200 Optional Optional Dankill Intel 6205 Enrisons selectable 6 vPro 0612 9489-976 G-9300M 46Bht 12-5** HID Multi 900G 7200 Optional Optional Dankill Intel 6205 Enrisons selectable 6 vPro 0612 9489-976 G-9300M 46Bht 12-5** HID Multi 900G 7200 Optional Optional Dankill Intel 6205 Enrisons 900G 7200 April 900G 7200 Optional Optional Normal Intel 6205 WWAN upg Norma 6 vPro 07 000 Processor 1000 Processor 10000 Processor 10000 Processor 1000 Processor 1000 Processor 1000 Processor 1000 Pr | | sor Memory display | GB ⁸ rpm UltraBa | se Series 3 | board | WLAN | WWAN | SIM card | cells | vPro | (P) (| mm/yy) |
| 34382AG IG 5332M 4GBH 125*I htt Multi 1806 250 Optional Optional Standard Intel 6205 Encisons selectable 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 250 Optional Optional Optional National Intel 6205 WWAN upg None 6 vPro 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2700 Optional Optional National Intel 6205 WWAN upg None 6 vPro 6 Pt 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2700 Optional Optional National Intel 6205 WWAN upg None 6 vPro 6 Pt 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2700 Optional Optional National Intel 6205 WWAN upg None 6 vPro 6 Pt 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2500 Optional Optional National Intel 6205 WWAN upg None 6 vPro 6 Pt 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2500 Optional Optional National Intel 6205 WWAN upg None 6 vPro 6 Pt 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2500 Optional Optional National Intel 6205 WWAN upg None 6 vPro 6 Pt 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2500 Optional National Intel 6205 WWAN upg None 6 vPro 6 Pt 60812 6 vPro 60812 34382AG IG 5332M 4GBH 125*I htt Multi 1806 2500 Optional Challeng Intel 1806 250 | | | | | | | | 0 | | | | |
| 3438-26 IG -3320M 4GBH 1 12.5* HD <i>Multi</i> 3000 7200 Optional Optional None Intel 8205 WWAN lugs None 6 PPro G P 0612 3438-26 7-3520M 4GBH 1 25.5* HD <i>Multi</i> 3000 7200 Optional Cybinal None Intel 8205 WWAN lugs None 6 PPro G P 0612 3438-26 7-3520M 4GBH 1 2.5* HD <i>Multi</i> 5000 7200 Optional None Intel 8205 WWAN lugs None 6 PPro G P 0612 3438-25 7-3520M 4GBH 1 2.5* HD <i>Multi</i> 5000 7200 Optional None Intel 8205 WWAN lugs None 6 PPro G P 0612 3438-25 7-3520M 4GBH 1 2.5* HD <i>Multi</i> 5000 7200 Optional None Intel 8205 WWAN lugs None 6 PPro G P 0612 3438-25 7-3520M 4GBH 1 2.5* HD <i>Multi</i> 5000 7200 Optional None Intel 8205 WWAN lugs None 6 PPro G P 0612 PPRO G P | 3438-2BG i5-332 | 0M 4GBx1 12.5" HD <i>Multi</i> | 500G 7200 Option | al Optional | Backlit | Intel 6205 | Ericsson . | selectable | 6 | vPro | ۵. | 06/12 |
| 3438-26G IG-3320M 4GBH 12-F HD Multi 3200C 7200 Optional Optional None Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 7200 Optional Optional None Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 7200 Optional Optional None Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 7200 Optional Optional None Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 7200 Optional Optional None Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 7200 Optional Optional None Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 300 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 300 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 300 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 300 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 300 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 300 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3438-26G IG-3320M 4GBH 12-F HD Multi 300C 300 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G P 0612 3400 Optional Intel 8205 WWAN upg None 6 VPTo G | | | | | | | | | | | G P | 06/12 |
| 3438-23G i 3-320M 4GBH 1 2:5 HD Multi 1906 SSD VID-HSW UltraBase None Intel 8205 WWAN upg None 6 VPro G P 6612 3438-22G i 3-320M 4GBH 1 2:5 HD Multi 1905 SSD VID-HSW UltraBase None Intel 8205 WWAN upg None 6 VPro G P 6612 3438-22G i 3-320M 4GBH 1 2:5 HD Multi 1905 SSD VID-HSW UltraBase None Intel 8205 WWAN upg None 6 VPro G P 6612 3438-22G i 3-320M 4GBH 1 2:5 HD Multi 1905 SSD VID-HSW UltraBase None Intel 8205 WWAN upg None 6 VPro G P 6612 Postoning Processor Convertible table ultraprotately one sprante processor of the spranted pro | | | | | | | | | | | | |
| 3438-226 i7-3820M 4GBH 12.5* HD <i>Multi</i> 1806 SSD D/VDHW UltraBase None Intel 8205 WWAN upg None 6 vPro G P 0612 Positioning Processor | | | | | | | | | | | | |
| Processor Processor Processor Intel® Core** 15-320M processor (dual-core, 260GHz, 3MB Cache), Intel H D Graphics 4000, DRR memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), JHT technology intel Core in 2500M processor (dual-core, 260GHz, 4MB Cache), Intel H D Graphics 4000, DRR memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology intel Core in 2500M processor (dual-core, 260GHz, 4MB Cache), Intel Turbo Boost 2.0 (3.60GHz), HT technology intel Core in 2500M processor (dual-core, 260GHz), and intellocate in 2500MHz and intellocate in | | | | | | | | 0 | | | | |
| Processor Intel® Core®*i 5-320M processor (dual-core, 2:60GHz, MB Cache), Intel HD Graphics 4000, DBR memory controller (up to 1600MHz), limit Turbo Boxat 20 (3:60GHz), HT technology and the processor of th | | | | W UltraBase | None | Intel 6205 | | <u> </u> | | | | |
| Memory 16.9B max* / PCS-12800 1600MHz DO-Bx, non-parity 16.9B max* / PCS-12800 1600MHz DO-Bx, non-parity 17.0B max* / PCS-12800 1600MHz DO-Bx, non-parity 18.0B max* / PCS-12800 1600MHz DO-Bx, | | Intel® Core™ i5-3320M proces DDR3 memory controller (up to | ssor (dual-core, 2.60 o 1600MHz), Intel Tu | ırbo Boost 2.0 | (3.30GF | lz), HT techr | ics 4000, nology | Genuine W Professiona | indov al 64 | vs® 7 | | |
| Optical Supports Ultrabays Sim devices in optional or standard ThinkArd Ultrabase Series 3 (0A3932) | Memory | 16GB max ⁷ / PC3-12800 1600 | MHz DDR3, non-pa | rity, | (3.60GF | Hz), HT techr | iology ; | some listed) | | | | (Offig |
| SUPPORTS Ultrabay Sim devices in optional or standard ThinkPad Ultrabase Series 3 (0A3932) SATA disk S SATA disk S Some: Solid State Drive (SSD) SATA 6 doSts, 2.5 wide, 7 min high protection System; and some standard ThinkPad Ultrabase Series 3 Missara SSD None Missara SSD None Outdoor: 12.5° (317.5mm) HD (1366x768) TFT color, and-glare display with scratch resistant Corning' Gorilla' Glass, LED backlight, 300 nits, 163 aspect ratio, 500: 1 contrast ratio, and light of the second disk in optional or standard ThinkPad Ultrabase Series 3 MultiTouch 12.5° (317.5mm) HD (1366x768) TFT color, and-glare display with scratch resistant Corning' Gorilla' Glass, LED backlight, 300 nits, 163 aspect ratio, 500: 1 contrast ratio, and the second disk in optional or standard display. MultiTouch screen supports pen & five-finger gesture MultiCouch screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digitizer pen, pen holder in side base (right), write on screen with standard digiti | | Some: DVD burner, removable | e from ThinkPad Ulti | abase Series | | | | | | | 4 (onl | / some |
| mSATA™ SSD Widescreen Widescreen Gisplay ### Author | | Some: Solid State Drive (SSE Some: Hard Disk Drive / SATA All: removable, upgradable | 0) / SATA 6.0Gb/s, 2. A 3.0Gb/s, 2.5" wide e, Shock Mounted H | 5" wide, 7mm 7mm high, Ao ard Drive, supp | high ctive Pro | tection Syste | A33932) ¡ em™ : | isted) ■ Norton™ In (30 days of ■ Access Cor | terne virus nnect | t Secu definit ions™ | rity 20 ions) | 12 |
| display anti-glare display with scratch resistant Corning" Gorilla" Glass, LED backlight, 300 nits, 16.9 aspect ratio, 500.1 contrast ratio, 1.2% reflectivity, multiple anti-relectivity layers, IPS MultiTouch, 12.5" (317.5mm) HD (1368x768) IFT octor, anti-glare, LED backlight, 300 nits, 16.9 aspect ratio, 500.1 contrast ratio, IPS. Alt: McVelvev (170" viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotted and swivel hinge, power, reset, and rotation buttons on display bottom Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @ 60Hz; Ma | mSATA™ SSD | | Trimini da Onidadao | | | | | | _ | | anaye | #1 |
| ## WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom HD7200 resolution, wide view angle, low light sensitive, face tracking, fixed focus supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports external inalog monitor via VGA DB-15 and digital monitor via DisplayPort; supports external analog buttons, pill-resistant, multimedia Fin keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Barr³, magnifying glass UltraNava", buttonless touchpad below keyboard, Tap Zones, multi-touch None Without UltraBase; 3-cell: 12.0° x 9.0° x 1.1-1.23°; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.67 ib (1.66kg); 6-cell: from 3.97 ib (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Lirabase Series 3 (ell (66Wm): up to 9.9 hr; external battery (64Wm): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr Chipset Ultrabase Multicard Reader ExpressCard* Some: ThinkPad Ultrabase Series 3 (see right side) 4-1-1 reader (SD, SDHC, SDXC, MMC) Ports with standard and the standard search of the standard sea | | anti-glare display v LED backlight, 300 1.2% reflectivity, m | with scratch resistan I nits, 16:9 aspect ra nultiple anti-reflectivit | Corning® Gortio, 500:1 cont tio, 500:1 cont y layers, IPS | trast ratio | ο, | | Fingerprint Software (fingerprint models) ThinkVantage System Update Adobe® Reader® | | | | |
| write on screen with standard digitizer pen, peñ holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display. Maximum external resolution: 2560x1600 (DisplayPort) @ 60Hz; cispleyIntel Political Pol | | 300 nits, 16:9 aspe MultiTouch screen | ect ratio, 500:1 contr supports pen & five | ast ratio, IPS, finger gesture |) | | | purchase a | prod | uct key | | tivate |
| Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | write on screen with | standard digitizer p | en, pen holde | r in side | base (right), | | | | | | |
| supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @ 60Hz; 2048x1536 (VGA) @ 75Hz; 1920x16200 @60Hz (Single-link DVI-D via cable 45J7915) Keyboard TrackPoint* TrackPoint pointing device, "Press-to-Select, Internet Scroll Bar1*, magnifying glass UltraNav*, buttonless touchpad below keyboard, Tap Zones, multi-touch None Wilhout UltraBase; 3-cell: 12.0* x 9.0* x 1.1-1.23*; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Displaycover: Magnesium +PCABS; Bottom: Magnesium alloy Li-Polymer 3-cell or Li-Ion 6-cell, HW Authentication; optional external battery as 2nd battery None Battery - life¹ Volume - scell or Li-Ion 6-cell, HW Authentication; optional external battery as 2nd battery None Some: ThinkPad Ultrabase Series 3 Volume - scell or Some: ThinkPad Ultrabase Series 3 Volume - scell (30Wnr): up to 4.7 hr; 6-cell (66Wnr): up to 9.9 hr; external battery (64Wnr): up to 12.0 hr; 6-cell plus external battery: up to 20.1 hr Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) Volume - schemal monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) PCIe Mini Card Some: Wireless MAN upgradable Some: Wireless WAN upgradable Some: Wireless WAN upgradable Some: Wireless WAN, Ericssom* F5521gw Mobile Broadband Module, PCIe Mini Card, More Modern Intel AMT Intel AMT Intel ACTS Wireless WAN upgradable Some: Wireless WAN, Ericssom* F5521gw Mobile Broadband Module, PCIe Mini Card, Hintel Active Management Technology (AMT) Audio support Hintel ACTS Wireless WAN upgradable Some: Wireless WAN, Ericssom* F5521gw Mobile Broadband Module, PCIe Mini Card, Volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, FCG 1.2-compliant Fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Au | | HD720p resolution, wide view | angle, low light sens | | | | | | | | | |
| TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹a," magnifying glass Touchpad ThinkLight™ None Dimensions³ without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.67 lb (1.66kg); 6-cell: from 9.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Battery - Itle® S-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr Chipset Ultrabase Mobile Intel QMTZ Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) Multicard Reader ExpressCard Smart Card Read Hone Ports PCIe Mini Card PCIe WLAN¹ PCIe Bluetooth 1-0.0 some: User selectable, contract required with service provider Modem None Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth 1-0.0 with eless Ethernet Intel AdT Audio support Intel Active Management Technology (iAMT) Security chip Power-on password, hard dick password, supervisor password, security keyhole Power-on password, hard dick password supervisor password, security keyhole Power-on password, hard dick password supervisor password, security keyhole PEAT™ Gold rating PEAT | Graphics | supports external analog moni supports dual independent dis Maximum external resolution: | itor via VGA DB-15 a play; 2560x1600 (Display | Port)@60Hz; | | | | | | | | |
| Seell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) | TrackPoint® Touchpad | TrackPoint pointing device, "Pr UltraNav™, buttonless touchpa | ess-to-Select," Inter | net Scroll Bar ¹ | 3, magni | ptional LED I fying glass | backlight | | | | | |
| Extended Battery stype Extended Battery Battery - life¹⁰ Scell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr Chipset Ultrabase Mublicard Reader ExpressCard Smart Card Read Ports Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) PCIe Mini Card PCIe WIAN¹ PCIe WWAN Some: Wireless WAN upgradable Some: Wireless WAN upgradable Some: Wireless WAN upgradable Some: Wireless WAN upgradable Some: User selectable, contract required with service provider Modem Modem Modem Bluetooth¹™ Bluetooth¹™ Bluetooth¹™ Bluetooth¹™ Audio support High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Security chip Fingerprint reader Limited warranty¹2 Limited warranty¹2 3-years/1-year battery, limited onsite service²4, 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business Supports ThinkVantage® technologies ThinkPad Ultrabase Series 3 Provides desktop expansion and cable management for X230 and X230 Tablet Provides desktop expansion and cable management for X230 and X230 Tablet for traveling **Converts ThinkPad to a two-synindle value and a two-spindle system with optional Ultrabasy Slim accessories in right side Other features: Power button (front) Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Security chip Fingerprint reader AuthenTec fingerprint reader (right base series 3 (see right side) **Converts ThinkPad Ultrabase Series 3 **Crivital Ultrabase Supports ThinkPad Ultrabase Series 3 **Crivital Ultrabase **Crivital Ultrabase **Drovides desktop expansion and cable management for X230 and X230 Tablet **Easily connects to the bottom of the X230 or X230 Tablet (Tablet Support Support Support Support Support Support Supp | Weight ² | 3-cell: from 3.67 lb (1.66kg); | 6-cell: from 3.97 | lb (1.80kg) | | 27-31.3mm | | | | | | |
| Battery - life¹o Scell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr Chipset | Battery - type | Li-Polymer 3-cell or Li-lon 6-ce | | | | ttery as 2nd I | pattery : | Supports Thir | ıkVar | ntage® 1 | echno | ologies |
| Ultrabase Some: ThinkPad Ultrabase Series 3 (see right side) Multicard Reader 4-in-1 reader (SD, SDHC, SDXC, MMC) Smart Card Read Ports Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) PCIe Mini Card PCIe WLAN¹ 1a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: Wireless WAN, Ericsson® F5521gw Mobile Broadband Module, PCIe Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS SIM card Some: User selectable, contract required with service provider None Bluetooth 4.0 wireless Hotel & Modem Stehemet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Adtro High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Security chip Fingerprint reader AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power on Authentication, supports the security chip Limited warrantyl² 3-years/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business X230 Tablet 6 Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with 2x30 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabays Slim accessories in right side of Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side of Converts ThinkPad to a two-spindle system with optional Ultrabays Slim accessories in right side of Converts ThinkPad to a two-spindle system with optional Ultrabays Slim accessories in right side of Converts ThinkPad to a two-spindle system with optional Ultrabays Slim accessories in right side of Converts ThinkPad to a two-spindle system with optional Ultrabays Slim accessories in right side of Converts ThinkPad to a two-spindle system with optional Ultrabays Cerify to Security No | | 3-cell (30Whr): up to 4.7 hr; | | | <i>tery:</i> up t | o 20.1 hr | | | | | | |
| Ports Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) Two PCI Express Mini Card slots PCIe WLAN⁴ PCIe WWAN Some: Wireless WAN upgradable Some: Wireless WAN, Ericsson® F5521gw Mobile Broadband Module, PCIe Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS SIM card Some: User selectable, contract required with service provider Modem Bluetooth™ Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Audio support High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Limited warranty¹² Security Security Security Limited warranty¹² Two PCI Express Mini Card slots Two PCI Express Mini Card slots Two PCI Express Mini Card slots Two PCI Express Mini Card slots Tord Intel Card, GPRS/WCDMA/HSPA/HSPA+, GPS Security None Bluetooth 4.0 wireless Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Intel Active Management Technology (iAMT) Audio support Security Security Chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Fingerprint reader Fingerprint reader LED indicator, Power On Authentication, supports the security chip Limited warranty¹² Syears/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business | Ultrabase Multicard Reader ExpressCard | Some: ThinkPad Ultrabase Se 4-in-1 reader (SD, SDHC, SDX One slot (ExpressCard/34, Exp | eriės 3 (see right sid (C, MMC) | e) | | | | X230 Tablet Easily connex X230 or X2 | ects to 30 Ta | o the bo | ttom o | of the ling |
| PCIe WILAN4 PCIe WLAN4 PCIe WWAN PCIe WILAN4 PCIe WILAN4 PCIe WWAN PCIe Wireless WAN upgradable PCIE Wireless WAN upgradable PCIE WWAN PCIE WWAN PCIE WWAN PCIE WWAN PCIE WWAN PCIE WILAN4 PCIE WILAN4 PCIE WWAN PCIE W | | Two USB 3.0, one powered US | | et (RJ-45) | | | | accessories | in ri | | | Slim |
| SIM card Modem Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Intel AMT Audio support High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader LED indicator, Power On Authentication, supports the security chip Limited warranty¹² 3-years/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business DVI-D Via cable 45J/915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹² 24 hour x 7 day¹8 toll-free support | PCIe WLAN⁴ | 11a/b/g/n, PCle Half Mini Card Some: Wireless WAN upgrada Some: Wireless WAN, Ericsso | I, Intel Centrino® Adv able on® F5521gw Mobile | | | Cle Mini Car | d. | Power butto Security key Analog VGA DisplayPort | n (fro / lock \ DB- (sup | i, secur 15 moi ports s | nitor p ingle- | ort |
| volume up, down, mute buttons / dual array microphone, combo audio/mic jack Security Security chip Fingerprint reader Fingerprint reader LED indicator, Power On Authentication, supports the security chip Limited warranty¹² 3-years/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business | Modem Bluetooth™ Ethernet Intel AMT | Some: User selectable, contra None Bluetooth 4.0 wireless Intel 82579LM Gigabit Networl Intel Active Management Tech | act required with ser k Connection (Lewis | ville), PHY, PC | | | | Four USB 2 Gigabit ethe Microphone Requires 65 | .0 po ernet in ar SW or | rts (RJ-45 nd head |) port | e out |
| Limited warranty ¹² 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business 24 hour x 7 day ¹⁸ toll-free support | Security Security chip | volume up, down, mute button: Power-on password, hard disk Trusted Platform Module, TCG AuthenTec fingerprint reader (| s / dual array microph password, supervis i 1.2-compliant right base of displav | one, combo a or password, s . used in table | udio/mic security l et/notebo | jack ceyhole | | 65-watt AC A EPEAT™ Gold ENERGY STA GREENGUAR | dapted ration of the contract | ng 5.0-com | | |
| | Limited warranty ¹² | 3-years /1-year battery, limited public and national holidays. C | d onsite service ²⁴ , 8 alls received after 3 | am - 5 pm, M pm will require | on - Fri | coverage exc tional next bu | luding | International \ 24 hour x 7 da | Narra ay ¹⁸ to | oll-free | supp | 7 ort |

ThinkPad X230 Tablet (3438) - Onsite - II

| Type-model Processor Memory | Widescreen display | Disk SATA GB [®] rpm | Optical in UltraBase | ThinkPad Ultrabase Series 3 | Backlit key- board | PCIe Mini Card WLAN | Mini Card | | Intel vPro | ilobal (0 GMP (P) | Ann Date Preload (mm/yy) |
|-----------------------------|-----------------------|-------------------------------------|----------------------------|-----------------------------------|--------------------------|---------------------------|-----------|---|---------------|-------------------------|--------------------------------|
| 3438-3SG i5-3320M 4GBx1 | 12.5" HD Out | 128G SSD | Optional | Optional | None | Intel 6205 ²⁸ | WWAN upg | 6 | vPro | GΡ | Pro 64 07/12 |
| 3438-2RG i7-3520M 4GBx1 | 12.5" HD <i>Multi</i> | 128G SSD | Optional | Optional | None | Intel 6205 | WWAN upg | 6 | vPro | GΡ | Pro 64 07/12 |

• Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

| Positioning Processor | Convertible tablet ultraportable; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology | Professional 64 Ready to install applications ¹⁴ (only |
|--|---|--|
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | some listed) Rescue and Recovery [™] Password Manager |
| Optical Ultrabay SATA disk | Option for ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) 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, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3 | Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™ • ThinkVantage Power Manager |
| mSATA™ SSD | None | ThinkVantage Tools |
| Widescreen display | Outdoor: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare display with scratch resistant Corning® Gorilla® Glass, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, IPS MultiTouch: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports pen & five-finger gesture All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom | Fingerprint Software (fingerprint models) ThinkVantage System Update Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Skype™ for Windows |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | |
| Graphics | Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915) | |
| Keyboard TrackPoint® Touchpad ThinkLight™ | 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch None | |
| Dimensions ³ | without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm | |
| Weight ² Case material | 3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy | Supports ThinkVantage® technologies |
| Battery - type | Li-Polymer 3-cell or Li-lon 6-cell, HW Authentication; optional external battery as 2nd battery | ThinkPad Ultrabase Series 3 |
| Extended Battery Battery - life ¹⁰ | None 3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr | Provides desktop expansion and cable management for X230 and X230 Tablet |
| Chipset Ultrabase Multicard Reader ExpressCard Smart Card Read | Mobile Intel QM77 Express Chipset Option: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54) None | Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side |
| Ports | Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) | Other features: • Power button (front) |
| PCIe Mini Card PCIe WLAN⁴ PCIe WWAN SIM card Modem Bluetooth™ Ethernet Intel AMT Audio support | Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / | Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g |
| | volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip | 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant |
| Limited warranty ¹² | 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available | International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹² |
| | | |