



Personal Systems Reference *Lenovo® IdeaTab™ Tablets*

February 2013 - Version 432

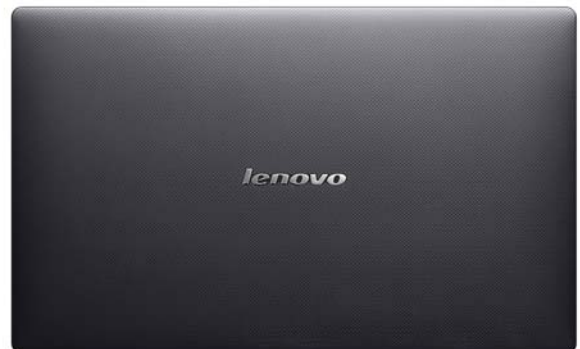


Lenovo IdeaTab S2110

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IdeaTab Lynx K3011
(Front)



IdeaTab Lynx K3011
(Back)



(Left and Right) (Top and Bottom)

IdeaTab Lynx K3011



IdeaTab Lynx K3011
with optional keyboard dock (coming soon)



IdeaTab Lynx K3011
with optional keyboard dock (coming soon)



IdeaTab Lynx K3011

Part number	Processor	Memory	Widescreen display	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue-tooth	GPS	WWAN	Key-board dock	Battery	OS preload
59343251	Atom Z2760	2GB	11.6" LED IPS	2.0M/None	SGX545	64GB ⁸	11b/g/n ²⁸	Gray	BT4.0	None	None	None	2-cell	Win8 32
<ul style="list-style-type: none"> • 11.6" IPS panel display, extra-wide 170° viewing angle • 10-point capacitive multi-touch, with G-sensor and light sensor for a delightful interactive experience • 1080p playback via micro HDMI port • Optional keyboard dock giving expanded PC function that makes writing and operation a pleasure, ports to connect with all regular PC devices • Built-in 6800mAh rechargeable lithium polymer battery, up to 8 hours WIFI browsing, and up to 16 hours with optional keyboard dock • Switch between Metro and desktop modes via Windows Home Button when used as a tablet • Award-winning Lenovo Services to keep you on-line and on-the-go 														
Positioning	Touchscreen tablet													
Processor	Intel® Atom™ Processor Z2760 (2 cores / 4 threads, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology													
Memory	2GB std / 2GB max ⁷ / 800MHz LPDDR2, mobile memory													
Storage	64GB / eMMC (embedded Multi Media Card) flash memory on board													
Storage extension	One microSD Card slot													
Graphics	PowerVR™ SGX545 graphics in Intel Atom SoC, supports 1080p video out via mini-HDMI™ connector, HDCP-compliant													
Display	11.6" (294.6mm) HD (1366x768) TFT color, IPS panel, VibrantView (glossy), LED backlight, 400 nits, 16:9 aspect ratio, 800:1 contrast ratio, 135 PPI (Pixels Per Inch) Viewing angle: 170° (+/- 85°) horizontal, 170° (+/- 85°) vertical Projected Capacitive Touch (PCT) technology, supports 10-point													
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point													
Camera	Front camera: 2.0-megapixel, fixed focus Rear camera: None													
Video capture	1080P@30FPS video capture (front camera)													
Audio support	Realtek® ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, microphone / headphone combo jack													
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, PCM/WAVE, EVRC, QCLEP Video formats: VP8, MPEG-4, H.263, H.264, DivX													
Keyboard	Virtual keyboard, portrait and landscape support													
Control buttons	Volume up, volume down, and power buttons													
Keyboard Dock	None													
Light sensor	Ambient Light Sensor													
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer													
Gyroscope	3-axis gyroscope													
eCompass	Digital compass													
Ports	micro HDMI, micro USB (Charger port and Dock connector), microphone / headphone combo jack (3.5 mm)													
WLAN	11b/g/n wireless ⁴ , Broadcom® BCM4330 combo chip, supports Wi-Fi and Bluetooth													
WWAN	None													
SIM card	None													
GPS	None													
Bluetooth®	Bluetooth 4.0 wireless, integrated in BCM4330													
FM radio	None													
Dimensions ³	K3011 only (WxHxT): 11.8" x 7.39" x 0.3-0.37"; 300.9mm x 187.8mm x 7.6-9.48mm With keyboard dock: 12.0" x 7.99" x 0.43-1.01"; 305.7mm x 203mm x 10.85-25.54mm													
Weight ²	IdeaTab K3011 only: starting at 1.41 lb (0.64 kg) With keyboard dock: starting at 2.87 lb (1.30 kg)													
Case color	Top: Black frame; Bottom: Purple Gray with texture													
Case material	Top: Glass cover; Bottom: PA + 50% Glass Fiber (GF)													
Battery - type	Lithium polymer, 2-cell (6800mAh)													
Battery - life ¹⁰	IdeaTab K3011 only: Up to 8 hours Web browsing With keyboard dock: Up to 16 hours Web browsing													
In the box	IdeaTab K3011, optional keyboard dock (on some models), AC adapter (charger), micro USB to USB cable, microSD Card prying pin, and documentation													
										Preloaded operating system²⁰ - Windows® 8 32-bit Preloaded applications¹⁴ (only some listed) - Traditional Desktop apps <ul style="list-style-type: none"> • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security • Nitro PDF Pro • Microsoft Office 2010 preloaded; purchase product key to activate • Intel AppUp® - Windows Store apps (Metro-style) <ul style="list-style-type: none"> • AccuWeather • eBay • Skype™ • Evernote • Rara Streaming • Encyclopedia Britannica • Merriam Webster • Fresh Paint 				
										10-watt AC adapter RoHS-compliant				
										Limited Warranty¹² ⇨ 1-year parts and labor for covered HW repairs only ⇨ Available Warranty Extension: • 2-year (total duration) warranty extension 04W8188 ⇨ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686 ⇨ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html				

See footnotes for important warranty information
US model(s) announced December 13, 2012

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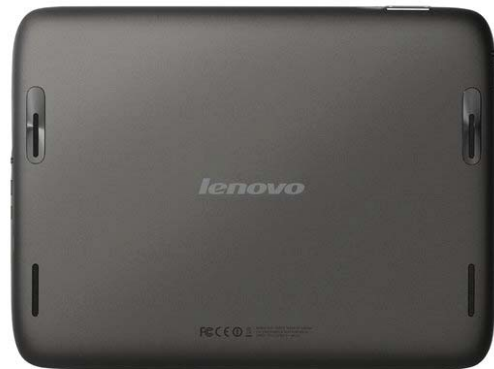
Part number	Processor	Memory	Widescreen display	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue-tooth	GPS	WWAN	Key-board dock	Battery	OS preload
59344276	Atom Z2760	2GB	11.6" LED IPS	2.0M/None	SGX545	64GB ⁸	11b/g/n ²⁸	Gray	BT4.0	None	None	None	2-cell	Win8 32
<ul style="list-style-type: none"> • 11.6" IPS panel display, extra-wide 170° viewing angle • 10-point capacitive multi-touch, with G-sensor and light sensor for a delightful interactive experience • 1080p playback via micro HDMI port • Optional keyboard dock giving expanded PC function that makes writing and operation a pleasure, ports to connect with all regular PC devices • Built-in 6800mAh rechargeable lithium polymer battery, up to 8 hours WIFI browsing, and up to 16 hours with optional keyboard dock • Switch between Metro and desktop modes via Windows Home Button when used as a tablet • Award-winning Lenovo Services to keep you on-line and on-the-go 														
Positioning	Touchscreen tablet													
Processor	Intel® Atom™ Processor Z2760 (2 cores / 4 threads, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology													
Memory	2GB std / 2GB max ⁷ / 800MHz LPDDR2, mobile memory													
Storage	64GB / eMMC (embedded Multi Media Card) flash memory on board													
Storage extension	One microSD Card slot													
Graphics	PowerVR™ SGX545 graphics in Intel Atom SoC, supports 1080p video out via mini-HDMI™ connector, HDCP-compliant													
Display	11.6" (294.6mm) HD (1366x768) TFT color, IPS panel, VibrantView (glossy), LED backlight, 400 nits, 16:9 aspect ratio, 800:1 contrast ratio, 135 PPI (Pixels Per Inch) Viewing angle: 170° (+/- 85°) horizontal, 170° (+/- 85°) vertical Projected Capacitive Touch (PCT) technology, supports 10-point													
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point													
Camera	Front camera: 2.0-megapixel, fixed focus Rear camera: None													
Video capture	1080P@30FPS video capture (front camera)													
Audio support	Realtek® ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, microphone / headphone combo jack													
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, PCM/WAVE, EVRC, QCLEP Video formats: VP8, MPEG-4, H.263, H.264, DivX													
Keyboard	Virtual keyboard, portrait and landscape support													
Control buttons	Volume up, volume down, and power buttons													
Keyboard Dock	None													
Light sensor	Ambient Light Sensor													
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer													
Gyroscope	3-axis gyroscope													
eCompass	Digital compass													
Ports	micro HDMI, micro USB (Charger port and Dock connector), microphone / headphone combo jack (3.5 mm)													
WLAN	11b/g/n wireless ⁴ , Broadcom® BCM4330 combo chip, supports Wi-Fi and Bluetooth													
WWAN	None													
SIM card	None													
GPS	None													
Bluetooth®	Bluetooth 4.0 wireless, integrated in BCM4330													
FM radio	None													
Dimensions ³	K3011 only (WxHxT): 11.8" x 7.39" x 0.3-0.37"; 300.9mm x 187.8mm x 7.6-9.48mm With keyboard dock: 12.0" x 7.99" x 0.43-1.01"; 305.7mm x 203mm x 10.85-25.54mm													
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Case color	Top: Black frame; Bottom: Purple Gray with texture													
Case material	Top: Glass cover; Bottom: PA + 50% Glass Fiber (GF)													
Battery - type	Lithium polymer, 2-cell (6800mAh)													
Battery - life ¹⁰	IdeaTab K3011 only: Up to 8 hours Web browsing With keyboard dock: Up to 16 hours Web browsing													
In the box	IdeaTab K3011, optional keyboard dock (on some models), AC adapter (charger), micro USB to USB cable, microSD Card prying pin, and documentation													
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										10-watt AC adapter RoHS-compliant				
										Limited Warranty¹² ⇨ 1-year parts and labor for covered HW repairs only ⇨ Available Warranty Extension: • 2-year (total duration) warranty extension 04W8188 ⇨ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686 ⇨ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html				

See footnotes for important warranty information
US model(s) announced January 30, 2013

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(KILK1-2) February 2013



IdeaTab S2109
(Front)



IdeaTab S2109
(Back)



IdeaTab S2109
(Top and Bottom)



IdeaTab S2109
(Left and Right)



IdeaTab S2109
Folio Case (coming soon)



IdeaTab S2109
Screen Protector (coming soon)

Type-model	Processor	GHz	Cores	Memory	Widescreen display	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue-tooth	Bat-tery	GPS	WWAN	OS preload
2291-1EU	Cortex-A9	1.00	Dual	1GB	9.7" LED IPS	1.3M/None	PowerVR SGX540	16GB ⁸	11b/g/n ²⁸	Gray	BT3.0	3-cell	GPS	None	Android 4.0

- **Matt Gun Metal Gray unibody shell with 9.7" IPS panel display**
- **Quad speakers with powerful dual bass**
- **5-point capacitive multi-touch, with G-sensor and light sensor inside for a delightful interactive experience**
- **Extra slim and light; just 8.9mm thin and 580g weight (vary by configuration)**
- **1080p playback via micro HDMI port**
- **SRS TruMedia provides the unique sound enhancement feature that making audio sound become natural, clearer and beautiful**
- **Lenovo App Shop and Android Market ensure ready access to thousands of useful apps**
- **Award-winning Lenovo Services to keep you on-line and on-the-go**

Positioning	Touchscreen tablet		Preloaded operating system ²⁰ - Android™ 4.0 (Ice Cream Sandwich) Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo App Shop• Documents To Go®• Norton™ Tablet Security• PrinterShare™ Mobile Print• Zinio• AccuWeather• Evernote• News Republic• ooVoo™ Video Call• Skype™• SugarSync
Processor	Dual-core ARM® Cortex®-A9 MPCore™ (1.0 GHz per core, dual-core) with Symmetric Multiprocessing (SMP)		
Memory	1GB std / 1GB max ⁷ / 400MHz LPDDR2 , mobile memory		
Storage	8GB, 16GB, or 32GB / eMMC (embedded Multi Media Card) flash memory on board		
Storage extension	one microSD Card slot		
Graphics	PowerVR SGX540 graphics integrated in TI OMAP™4430, provides dedicated 2D/3D graphics hardware accelerator, uses system memory, OpenGL ES 2.0 supports 1080p Full HD video out via micro HDMI connector, supports HDCP		
Display	9.7" (246.4mm) XGA (1024x768) TFT color, IPS panel, VibrantView (glossy), LED backlight , 420 nits, 4:3 aspect ratio, 900:1 contrast ratio, 133 pixels per inch (ppi) Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical		
Multi-touch	Capacitive-type multi-touch, supports 5-point		
Camera	<i>Front camera:</i> 1.3-megapixel, fixed focus <i>Rear camera:</i> None		
Video capture	720p HD video capture (front camera)		
Audio support	Texas Instruments™ (TI™) TWL6040 Low-Power audio codec / four SRS® certified speakers (0.7 watt x 4) / SRS TruMedia™ audio enhancement / integrated microphone		
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, WAV Video formats: VP8, MPEG-2, MPEG-4, H.263, H.264		
Keyboard	Virtual keyboard via Android, portrait and landscape support		
Control buttons	Volume up, volume down, and power buttons		
Light sensor	Ambient Light Sensor		
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer		
Gyroscope	3-axis gyroscope		
eCompass	Digital compass		
Platform	Texas Instruments (TI) OMAP4430		
Ports	Charger port, micro HDMI, micro USB, microphone / headphone combo jack (3.5 mm)		
WLAN	11b/g/n wireless ⁴ , TI WL1281 chip (WiLink™ 7.0 single-chip connectivity solution), WiFi, Bluetooth, GPS, and FM transmit/receive cores integrated in a single chip		
WWAN	None		
SIM card	None		
GPS	GPS (Global Positioning System), integrated in WL1281		
Bluetooth®	Bluetooth 3.0 wireless, integrated in WL1281		
FM radio	FM Radio with RDS (Radio Data System), FM transmit/receive core integrated in WL1281		
Dimensions ³	(WxHxT): 9.7" x 7.3" x 0.35"; 247mm x 185.3mm x 8.9mm		
Weight ²	starting at 1.28 lb (580 g);		
Case color	<i>Top:</i> Black frame; <i>Bottom:</i> Matt Gun metal gray		
Case material	<i>Top:</i> Glass cover; <i>Bottom:</i> PC/ABS		
Battery - type	Lithium Ion, 3-cell (24.8Wh)		
Battery - life ¹⁰	up to approximately 10 hr (web browsing or video playback), up to 700 hr on standby		
In the box	IdeaTab S2109, AC adapter (charger), USB cable, rubber case, and documentation		
			15-watt AC adapter (100-240V) RoHS-compliant
			Limited Warranty ¹² <ul style="list-style-type: none">➤ 1-year parts and labor for covered HW repairs only➤ Available Warranty Extension:<ul style="list-style-type: none">• 2-year (total duration) warranty extension 04W8188➤ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686➤ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html

15-watt AC adapter (100-240V)
RoHS-compliant

Limited Warranty¹²

- ⇒ **1-year parts and labor for covered HW repairs only**
- ⇒ **Available Warranty Extension:**
 - **2-year (total duration) warranty extension** 04W8188
- ⇒ **24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686**
- ⇒ **Award-winning local support, visit <http://consumersupport.lenovo.com/us/en/supportphonenumberlist/supportphone.html>**

See footnotes for important warranty information
US model(s) announced April 24, 2012

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(GOX1-1) May 2012

Type-model	Processor	GHz	Cores	Memory	Widescreen display	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue-tooth	Battery	GPS	WWAN	OS preload
2291-1NU	Cortex-A9	1.00	Dual	1GB	9.7" LED IPS	1.3M/None	PowerVR SGX540	8GB ⁸	11b/g/n ²⁸	Gray	BT3.0	3-cell	GPS	None	Android 4.0
2291-1PU	Cortex-A9	1.00	Dual	1GB	9.7" LED IPS	1.3M/None	PowerVR SGX540	16GB	11b/g/n	Gray	BT3.0	3-cell	GPS	None	Android 4.0
2291-1QU	Cortex-A9	1.00	Dual	1GB	9.7" LED IPS	1.3M/None	PowerVR SGX540	32GB	11b/g/n	Gray	BT3.0	3-cell	GPS	None	Android 4.0

- **Matt Gun Metal Gray unibody shell with 9.7" IPS panel display**
- **Quad speakers with powerful dual bass**
- **5-point capacitive multi-touch, with G-sensor and light sensor inside for a delightful interactive experience**
- **Extra slim and light; just 8.9mm thin and 580g weight (vary by configuration)**
- **1080p playback via micro HDMI port**
- **SRS TruMedia provides the unique sound enhancement feature that making audio sound become natural, clearer and beautiful**
- **Lenovo App Shop and Android Market ensure ready access to thousands of useful apps**
- **Award-winning Lenovo Services to keep you on-line and on-the-go**

Positioning	Touchscreen tablet		Preloaded operating system ²⁰ - Android™ 4.0 (Ice Cream Sandwich) Preloaded applications ¹⁴ (only some listed) <ul style="list-style-type: none">• Lenovo App Shop• Documents To Go®• Norton™ Tablet Security• PrinterShare™ Mobile Print• Zinio• AccuWeather• Evernote• News Republic• ooVoo™ Video Call• Skype™• SugarSync
Processor	Dual-core ARM® Cortex®-A9 MPCore™ (1.0 GHz per core, dual-core) with Symmetric Multiprocessing (SMP)		
Memory	1GB std / 1GB max ⁷ / 400MHz LPDDR2 , mobile memory		
Storage	8GB, 16GB, or 32GB / eMMC (embedded Multi Media Card) flash memory on board		
Storage extension	one microSD Card slot		
Graphics	PowerVR SGX540 graphics integrated in TI OMAP™4430, provides dedicated 2D/3D graphics hardware accelerator, uses system memory, OpenGL ES 2.0 supports 1080p Full HD video out via micro HDMI connector, supports HDCP		
Display	9.7" (246.4mm) XGA (1024x768) TFT color, IPS panel, VibrantView (glossy), LED backlight , 420 nits, 4:3 aspect ratio, 900:1 contrast ratio, 133 pixels per inch (ppi) Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical		
Multi-touch	Capacitive-type multi-touch, supports 5-point		
Camera	<i>Front camera:</i> 1.3-megapixel, fixed focus <i>Rear camera:</i> None		
Video capture	720p HD video capture (front camera)		
Audio support	Texas Instruments™ (TI™) TWL6040 Low-Power audio codec / four SRS® certified speakers (0.7 watt x 4) / SRS TruMedia™ audio enhancement / integrated microphone		
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, WAV Video formats: VP8, MPEG-2, MPEG-4, H.263, H.264		
Keyboard	Virtual keyboard via Android, portrait and landscape support		
Control buttons	Volume up, volume down, and power buttons		
Light sensor	Ambient Light Sensor		
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer		
Gyroscope	3-axis gyroscope		
eCompass	Digital compass		
Platform	Texas Instruments (TI) OMAP4430		
Ports	Charger port, micro HDMI, micro USB, microphone / headphone combo jack (3.5 mm)		
WLAN	11b/g/n wireless ⁴ , TI WL1281 chip (WiLink™ 7.0 single-chip connectivity solution), WiFi, Bluetooth, GPS, and FM transmit/receive cores integrated in a single chip		
WWAN	None		
SIM card	None		
GPS	GPS (Global Positioning System), integrated in WL1281		
Bluetooth®	Bluetooth 3.0 wireless, integrated in WL1281		
FM radio	FM Radio with RDS (Radio Data System), FM transmit/receive core integrated in WL1281		
Dimensions ³	(WxHxT): 9.7" x 7.3" x 0.35"; 247mm x 185.3mm x 8.9mm		
Weight ²	starting at 1.28 lb (580 g);		
Case color	<i>Top:</i> Black frame; <i>Bottom:</i> Matt Gun metal gray		
Case material	<i>Top:</i> Glass cover; <i>Bottom:</i> PC/ABS		
Battery - type	Lithium Ion, 3-cell (24.8Wh)		
Battery - life ¹⁰	up to approximately 10 hr (web browsing or video playback), up to 700 hr on standby		
In the box	IdeaTab S2109, AC adapter (charger), USB cable, rubber case, and documentation		
			15-watt AC adapter (100-240V) RoHS-compliant
			Limited Warranty ¹² ➤ 1-year parts and labor for covered HW repairs only ➤ Available Warranty Extension: <ul style="list-style-type: none">• 2-year (total duration) warranty extension 04W8188 ➤ 24x7¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686 ➤ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html

See footnotes for important warranty information
 US model(s) announced May 3, 2012

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 (GOX1-2) May 2012



IdeaTab S2110
(Front)



IdeaTab S2110
(Back)



(Left and Right) (Top and Bottom)

IdeaTab S2110



IdeaTab S2110
with optional keyboard dock



IdeaTab S2110
with optional keyboard dock



Optional keyboard dock

Type-model (Part number)	Processor	Memory	Widescreen display	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue- tooth	GPS	WWAN	Key- board dock	Battery + Battery in dock	OS preload
2258-A1U (59331449)	APQ8060A	1GB	10.1" IPS	1.3M/5.0M	Adreno 225	16GB ⁸	11b/g/n ²⁸	Black	BT4.0	None	None	2-cell		Android 4.0
2258-B4U (59331488)	APQ8060A	1GB	10.1" IPS	1.3M/5.0M	Adreno 225	16GB	11b/g/n	Black	BT4.0	None	None	Dock	2-cell + 2-cell	Android 4.0

- **10.1" IPS panel display, extra-wide 178° viewing angle**
- **10-point capacitive multi-touch, with G-sensor and light sensor inside for a delightful interactive experience**
- **Extra slim and light; just 8.69mm thin and 580g weight (vary by configuration)**
- **1080p playback via micro HDMI port**
- **Optional keyboard dock giving expanded PC function that makes writing and operation a pleasure, ports to connect with all regular PC devices**
- **Built-in 23.4Wh rechargeable lithium polymer battery, up to 10 hours WIFI browsing, and up to 20 hours with optional keyboard dock**
- **SRS TruMedia provides the unique sound enhancement feature that making audio sound become natural, clearer and beautiful**
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Positioning	Touchscreen tablet		<div>Preloaded operating system²⁰</div> <div>- Android™ 4.0 (Ice Cream Sandwich)</div> <div>Preloaded applications¹⁴ (only some listed)</div> <div><ul style="list-style-type: none">• Documents To Go®• Norton™ Security• PrinterShare™ for Lenovo• ES File Explorer• Zinio• AccuWeather• GO Keyboard• Amazon Kindle• TruMedia• Adobe® Flash® Player• Evernote• News Republic• ooVoo™• Skype™• SugarSync• rara.com™• Shazam• Papaya Free• Hardwood Games<ul style="list-style-type: none">– Hardwood Hearts– Hardwood Euchre– Hardwood Backgammon– Hardwood Solitaire– Hardwood Spades• GameTanium™</div> <div>App Store</div> <div><ul style="list-style-type: none">• Lenovo App Shop• Google Play</div> <div>10-watt AC adapter</div> <div>RoHS-compliant</div> <div>Limited Warranty¹²</div> <div><div><div>⇒ 1-year parts and labor for covered HW repairs only</div><div>⇒ Available Warranty Extension:<ul style="list-style-type: none">• 2-year (total duration) warranty extension</div><div>⇒ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686</div><div>⇒ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonelist/supportphone.html</div></div></div>
Processor CPU GPU	Qualcomm® Snapdragon™ S4 Processor APQ8060A Dual-core Krait CPU (1.5 GHz per core, dual-core, 1MB L2 cache) with aSMP Adreno™ 225 Graphics Processing Unit (GPU) integrated in APQ8060A, provides dedicated 2D/3D graphics hardware accelerator, OpenGL ES 2.0, DX9.3 supports 1080p Full HD video out via micro HDMI connector, supports HDCP		
Memory	1GB std / 1GB max ⁷ / 533MHz LPDDR2, mobile memory		
Storage	16GB / eMMC (embedded Multi Media Card) flash memory on board		
Storage extension	None		
Display	10.1" (256.5mm) WXGA (1280x800) TFT color, IPS panel, VibrantView (glossy), LED backlight, 360 nits, 16:10 aspect ratio, 700:1 contrast ratio, 149 PPI (Pixels Per Inch) Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical Projected Capacitive Touch (PCT) technology, supports 10-point		
Multi-touch			
Camera	Front camera: 1.3-megapixel, fixed focus Rear camera: 5.0-megapixel, auto focus, LED flash		
Video capture	720P@30FPS video capture (front camera), 1080P@30FPS video capture (rear camera)		
Audio support	WCD9310 audio codec / two speakers (0.5 watt x 2) / SRS TruMedia™ audio enhancement / integrated microphone		
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, PCM/WAVE, EVRC, QCLEP Video formats: VP8, MPEG-4, H.263, H.264, DivX		
Keyboard Control buttons Keyboard Dock	Virtual keyboard via Android, portrait and landscape support Volume up, volume down, and power buttons Some: Keyboard Dock, 83 Key, single touch touchpad, two USB 2.0, two micro-USB (no USB function, one for Tablet, one for charging), 3-in-1 Card reader (SD/SDHC/MMC), 2-cell battery (Lithium polymer, 23.4Wh) Dimensions (WxHxT): 10.2" x 7.5" x 0.39"; 259.8mm x 190mm x 9.85mm Weight: 1.32 lb (600 g)		
Light sensor G-sensor Gyroscope eCompass	Ambient Light Sensor Accelerometer (G) sensor, supports 3-axis accelerometer 3-axis gyroscope Digital compass		
Ports	micro HDMI, micro USB (USB OTG, Charger port, and Dock connector), microphone / headphone combo jack (3.5 mm)		
WLAN	11b/g/n wireless ⁴ , Qualcomm WCN3660 combo chip, Supports Wi-Fi, Bluetooth 4.0, and FM radio		
WWAN	None		
SIM card	None		
GPS	None		
Bluetooth®	Bluetooth 4.0 wireless, integrated in WCN3660		
FM radio	FM Radio (worldwide FM band support), integrated in WCN3660		
Dimensions ³ Weight ² Case color	IdeaTab S2110 only (WxHxT): 10.2" x 7.0" x 0.34"; 259.8mm x 178mm x 8.69mm starting at 1.28 lb (580 g); Top: Black frame; Bottom: Black color with texture, silver frame		
Case material	Top: Glass cover; Bottom: PC/ABS		
Battery - type Battery - life ¹⁰	Lithium polymer, 2-cell (23.4Wh) IdeaTab S2110 only: Up to 10 hours Web browsing, up to 30 days standby With keyboard dock: Up to 20 hours Web browsing, up to 60 days standby		
In the box	IdeaTab S2110, optional keyboard dock (on some models), AC adapter (charger), USB cable, and documentation		

See footnotes for important warranty information
 US model(s) announced August 29, 2012

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 (WTLK1-1) August 2012

IdeaTab™ S2110 (2258) - Wi-Fi (web only models)

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue-tooth	GPS	WWAN	Key-board dock	Battery + Battery in dock	OS preload
2258-D1U	APQ8060A	1GB	10.1" LED IPS	1.3M/5.0M	Adreno 225	16GB ⁸	11b/g/n ²⁸	Black	BT4.0	None	None	2-cell		Android 4.0
2258-D2U	APQ8060A	1GB	10.1" LED IPS	1.3M/5.0M	Adreno 225	32GB	11b/g/n	Black	BT4.0	None	None	2-cell		Android 4.0
2258-E4U	APQ8060A	1GB	10.1" LED IPS	1.3M/5.0M	Adreno 225	16GB	11b/g/n	Black	BT4.0	None	None	Dock	2-cell + 2-cell (dock)	Android 4.0
2258-E5U	APQ8060A	1GB	10.1" LED IPS	1.3M/5.0M	Adreno 225	32GB	11b/g/n	Black	BT4.0	None	None	Dock	2-cell + 2-cell (dock)	Android 4.0

- **10.1" IPS panel display, extra-wide 178° viewing angle**
- **10-point capacitive multi-touch, with G-sensor and light sensor inside for a delightful interactive experience**
- **Extra slim and light; just 8.69mm thin and 580g weight (vary by configuration)**
- **1080p playback via micro HDMI port**
- **Optional keyboard dock giving expanded PC function that makes writing and operation a pleasure, ports to connect with all regular PC devices**
- **Built-in 23.4Wh rechargeable lithium polymer battery, up to 10 hours WIFI browsing, and up to 20 hours with optional keyboard dock**
- **SRS TruMedia provides the unique sound enhancement feature that making audio sound become natural, clearer and beautiful**
- **Lenovo App Shop and Google Play ensure ready access to thousands of useful apps**
- **Award-winning Lenovo Services to keep you on-line and on-the-go**

Positioning	Touchscreen tablet		<div>Preloaded operating system²⁰ - Android™ 4.0 (Ice Cream Sandwich)</div> <div>Preloaded applications¹⁴ (only some listed)</div> <ul style="list-style-type: none">• Documents To Go®• Norton™ Security• PrinterShare™ for Lenovo• ES File Explorer• Zinio• AccuWeather• GO Keyboard• Amazon Kindle• TruMedia• Adobe® Flash® Player• Evernote• News Republic• ooVoo™• Skype™• SugarSync• rara.com™• Shazam• Papaya Free• Hardwood Games<ul style="list-style-type: none">– Hardwood Hearts– Hardwood Euchre– Hardwood Backgammon– Hardwood Solitaire– Hardwood Spades• GameTanium™ <div>App Store<ul style="list-style-type: none">• Lenovo App Shop• Google Play</div>
Processor CPU GPU	Qualcomm® Snapdragon™ S4 Processor APQ8060A Dual-core Krait CPU (1.5 GHz per core, dual-core, 1MB L2 cache) with aSMP Adreno™ 225 Graphics Processing Unit (GPU) integrated in APQ8060A, provides dedicated 2D/3D graphics hardware accelerator, OpenGL ES 2.0, DX9.3 supports 1080p Full HD video out via micro HDMI connector, supports HDCP		
Memory	1GB std / 1GB max ⁷ / 533MHz LPDDR2, mobile memory		
Storage	16GB or 32GB / eMMC (embedded Multi Media Card) flash memory on board		
Storage extension	None		
Display	10.1" (256.5mm) WXGA (1280x800) TFT color, IPS panel, VibrantView (glossy), LED backlight, 360 nits, 16:10 aspect ratio, 700:1 contrast ratio, 149 PPI (Pixels Per Inch) Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical Projected Capacitive Touch (PCT) technology, supports 10-point		
Multi-touch			
Camera	Front camera: 1.3-megapixel, fixed focus Rear camera: 5.0-megapixel, auto focus, LED flash		
Video capture	720P@30FPS video capture (front camera), 1080P@30FPS video capture (rear camera)		
Audio support	WCD9310 audio codec / two speakers (0.5 watt x 2) / SRS TruMedia™ audio enhancement / integrated microphone		
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, PCM/WAVE, EVRC, QCLEP Video formats: VP8, MPEG-4, H.263, H.264, DivX		
Keyboard Control buttons Keyboard Dock	Virtual keyboard via Android, portrait and landscape support Volume up, volume down, and power buttons Some: Keyboard Dock, 83 Key, single touch touchpad, two USB 2.0, two micro-USB (no USB function, one for Tablet, one for charging), 3-in-1 Card reader (SD/SDHC/MMC), 2-cell battery (Lithium polymer, 23.4Wh) Dimensions (WxHxT): 10.2" x 7.5" x 0.39"; 259.8mm x 190mm x 9.85mm Weight: 1.32 lb (600 g)		
Light sensor G-sensor Gyroscope eCompass	Ambient Light Sensor Accelerometer (G) sensor, supports 3-axis accelerometer 3-axis gyroscope Digital compass		
Ports	micro HDMI, micro USB (USB OTG, Charger port, and Dock connector), microphone / headphone combo jack (3.5 mm)		
WLAN	11b/g/n wireless ⁴ , Qualcomm WCN3660 combo chip, Supports Wi-Fi, Bluetooth 4.0, and FM radio		
WWAN	None		
SIM card	None		
GPS	None		
Bluetooth®	Bluetooth 4.0 wireless, integrated in WCN3660		
FM radio	FM Radio (worldwide FM band support), integrated in WCN3660		
Dimensions ³ Weight ² Case color	IdeaTab S2110 only (WxHxT): 10.2" x 7.0" x 0.34"; 259.8mm x 178mm x 8.69mm starting at 1.28 lb (580 g); Top: Black frame; Bottom: Black color with texture, silver frame		
Case material	Top: Glass cover; Bottom: PC/ABS		
Battery - type Battery - life ¹⁰	Lithium polymer, 2-cell (23.4Wh) IdeaTab S2110 only: Up to 10 hours Web browsing, up to 30 days standby With keyboard dock: Up to 20 hours Web browsing, up to 60 days standby		
In the box	IdeaTab S2110, optional keyboard dock (on some models), AC adapter (charger), USB cable, and documentation		
10-watt AC adapter RoHS-compliant			
Limited Warranty ¹² ➤ 1-year parts and labor for covered HW repairs only ➤ Available Warranty Extension: <ul style="list-style-type: none">• 2-year (total duration) warranty extension 04W8188 ➤ 24x7 ¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686 ➤ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumberlist/supportphone.html			

See footnotes for important warranty information
US model(s) announced August 29, 2012

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IdeaTab A2107



IdeaTab A2107



IdeaTab A2107
(Top and Bottom)



IdeaTab A2107
(Left and Right)



IdeaTab A2107 Case
(coming soon)



IdeaTab A2107 Screenguard
(coming soon)



IdeaTab A2107



IdeaTab A2107



IdeaTab A2107
(Top and Bottom)



IdeaTab A2107
(Left and Right)



IdeaTab A2107 Case
(coming soon)



IdeaTab A2107 Screenguard
(coming soon)

Part number	Platform	Processor	GHz	Cores	Memory	Display	Camera Front/rear (Megapixel)	Storage	WiFi 802.11	Back color	Blue-tooth	GPS	WWAN	Carrier	Battery	OS preload
59346799	MT6575	Cortex-A9	1.00	Single	512MB	7.0" TN LED	0.3M/2.0M	8GB ⁸	11b/g/n ²⁸	Black	BT4.0	GPS			3550mAh	Android 4.0
59335903	MT6575	Cortex-A9	1.00	Single	1GB	7.0" TN LED	0.3M/2.0M	16GB	11b/g/n	Black	BT4.0	GPS	WWAN	AT&T	3550mAh	Android 4.0

- **7.0" tablet makes it comfortable to carry around no matter you are**
- **5-point capacitive multi-touch, with G-sensor and light sensor for a delightful interactive experience**
- **Just 11.5mm thin and 400g weight (vary by configuration)**
- **Long battery life supports whole day usage**
- **Off-line GPS technology**
- **Protection from breaking with stainless steel Roll-Cage internal frame**
- **The Android 4.0 operating system is great for entertainment including reading, music, video, photo, games and web on the go**
- **Lenovo App Shop and Google Play ensure ready access to thousands of useful apps**
- **Award-winning Lenovo Services to keep you on-line and on-the-go**

Positioning	Touchscreen tablet		<div>Preloaded operating system²⁰</div> <div>- Android™ 4.0 (Ice Cream Sandwich)</div> <div>Preloaded applications¹⁴ (only some listed)</div> <div>Games</div> <div><ul style="list-style-type: none">• Exent GameTanium™• Papaya Mobile• Cut the Rope• Vendetta Online• Silvercreek 5 Card Games</div> <div>Entertainment</div> <div><ul style="list-style-type: none">• Slacker Radio• Amazon MP3</div> <div>Business</div> <div><ul style="list-style-type: none">• Documents To Go®• Printershare™ for Lenovo• Norton™ Mobile Security</div> <div>SNS</div> <div><ul style="list-style-type: none">• ooVoo™• Skype™• PokeTalk• imo.im</div> <div>Life</div> <div><ul style="list-style-type: none">• Accuweather• News Republic• Zinio• Amazon Kindle• Next Issue Media• ES File Explorer</div> <div>Lenovo</div> <div><ul style="list-style-type: none">• Lenovo Registration• Evernote• SugarSync</div> <div>App Store</div> <div><ul style="list-style-type: none">• Lenovo App Shop• Google Play</div> <div>7.5-watt AC adapter</div> <div>RoHS-compliant</div> <div>Limited Warranty¹²</div> <div><div>⇨ 1-year parts and labor for covered HW repairs only</div><div>⇨ Available Warranty Extension:<ul style="list-style-type: none">• 2-year (total duration) warranty extension04W8188</div><div>⇨ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686</div><div>⇨ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html</div></div>
Platform	MediaTek MT6575		
Processor	ARM® Cortex™-A9 processor (1.0 GHz per core, single-core, 256KB L2 cache), integrated graphics in MT6575, provides dedicated 2D/3D graphics hardware accelerator, OpenGL ES 2.0		
Graphics			
Memory	512MB or 1GB std / 1GB max ⁷ / 400MHz LPDDR2, mobile memory		
Storage	8GB or 16GB / eMMC (embedded Multi Media Card) flash memory on board		
Storage extension	One microSD Card slot, support up to 32GB		
Display	7.0" (177.8mm) WSVGA (1024x600) TFT color, Twisted nematic (TN) technology, VibrantView (glossy), LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170 PPI (Pixels Per Inch), Viewing angle: 140° (+/- 70°) horizontal, 140° (+/- 70°) vertical Projected Capacitive Touch (PCT) technology, supports 5-point		
Multi-touch			
Camera	Front camera: 0.3-megapixel, fixed focus Rear camera: 2.0-megapixel, fixed focus		
Video capture	VGA@30FPS video capture (front camera), 720P@30FPS video capture (rear camera)		
Audio support	MT6329 audio codec / two speakers (0.7 watt x 2) / integrated microphone		
Media capable	Audio formats: MP3, AAC, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, APE, G.711(PCM) Video formats: VP8, MP4, H.263, H.264		
Keyboard	Virtual keyboard via Android, portrait and landscape support		
Control buttons	Volume up, volume down, and power buttons		
Keyboard Dock	None		
Light sensor	Ambient Light Sensor		
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer		
Gyroscope	None		
eCompass	None		
Ports	micro USB (Charger port and Data sync), microphone / headphone combo jack (3.5 mm)		
WLAN	11b/g/n wireless ⁴ , MediaTek MT6620 combo chip, Supports Wi-Fi, Bluetooth 4.0, and GPS		
WWAN	Some: Wireless WAN, MT6167 chipset, GSM/WCDMA/HSPA		
SIM card	Some: One SIM card slot		
Carrier	Some: AT&T®, contract required with service provider		
GPS	GPS, supports A-GPS (Assisted GPS) on WWAN (3G) models		
Bluetooth®	Bluetooth 4.0 wireless, integrated in MT6620		
FM radio	None		
Dimensions ³	(WxHxT): 7.6" x 4.8" x 0.45"; 192mm x 122mm x 11.5mm		
Weight ²	starting at 0.88 lb (400 g);		
Case color	Top: Black frame; Bottom: Matt black		
Case material	Top: Glass (on panel) and frame (Polycarbonate + 20% Glass Fiber); Bottom: Polycarbonate (PC)		
Battery - type	Lithium polymer, 1-cell (13.5Wh / 3550mAh)		
Battery - life ¹⁰	Up to 10 hours Wi-Fi Web browsing		
In the box	IdeaTab A2107, AC adapter (charger), micro USB to USB cable, and documentation		

See footnotes for important warranty information

US model(s) announced February 21, 2013; previous model(s) on December 13, 2012

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(SONG1-1) February 2013

Type-model / Part number	Platform	Processor	Memory	Display	Camera Front/rear (Megapixel)	Storage	WiFi 802.11	Back color	Blue-tooth	GPS	WWAN	Carrier	Battery	OS preload
2298-B4U	MT6575	Cortex-A9	512MB	7.0" TN LED	0.3M/2.0M	8GB ⁸	11b/g/n ²⁸	Black	BT4.0	GPS			3550mAh	Android 4.0
2298-B7U / 59345263	MT6575	Cortex-A9	1GB	7.0" TN LED	0.3M/2.0M	16GB	11b/g/n	Black	BT4.0	GPS	WWAN	AT&T	3550mAh	Android 4.0

- **7.0" tablet makes it comfortable to carry around no matter you are**
- **5-point capacitive multi-touch, with G-sensor and light sensor for a delightful interactive experience**
- **Just 11.5mm thin and 400g weight (vary by configuration)**
- **Long battery life supports whole day usage**
- **Off-line GPS technology**
- **Protection from breaking with stainless steel Roll-Cage internal frame**
- **The Android 4.0 operating system is great for entertainment including reading, music, video, photo, games and web on the go**
- **Lenovo App Shop and Google Play ensure ready access to thousands of useful apps**
- **Award-winning Lenovo Services to keep you on-line and on-the-go**

Positioning	Touchscreen tablet		<div>Preloaded operating system²⁰</div> <div>- Android™ 4.0 (Ice Cream Sandwich)</div> <div>Preloaded applications¹⁴ (only some listed)</div> <div>Games</div> <div><ul style="list-style-type: none">• Exent GameTanium™• Papaya Mobile• Cut the Rope• Vendetta Online• Silvercreek 5 Card Games</div> <div>Entertainment</div> <div><ul style="list-style-type: none">• Slacker Radio• Amazon MP3</div> <div>Business</div> <div><ul style="list-style-type: none">• Documents To Go®• Printershare™ for Lenovo• Norton™ Mobile Security</div> <div>SNS</div> <div><ul style="list-style-type: none">• ooVoo™• Skype™• PokeTalk• imo.im</div> <div>Life</div> <div><ul style="list-style-type: none">• Accuweather• News Republic• Zinio• Amazon Kindle• Next Issue Media• ES File Explorer</div> <div>Lenovo</div> <div><ul style="list-style-type: none">• Lenovo Registration• Evernote• SugarSync</div> <div>App Store</div> <div><ul style="list-style-type: none">• Lenovo App Shop• Google Play</div> <div>7.5-watt AC adapter</div> <div>RoHS-compliant</div> <div>Limited Warranty¹²</div> <div><div>⇨ 1-year parts and labor for covered HW repairs only</div><div>⇨ Available Warranty Extension:<ul style="list-style-type: none">• 2-year (total duration) warranty extension04W8188</div><div>⇨ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686</div><div>⇨ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html</div></div>
Platform	MediaTek MT6575		
Processor	ARM® Cortex™-A9 processor (1.0 GHz per core, single-core, 256KB L2 cache), integrated graphics in MT6575, provides dedicated 2D/3D graphics hardware accelerator, OpenGL ES 2.0		
Graphics			
Memory	512MB or 1GB std / 1GB max ⁷ / 400MHz LPDDR2, mobile memory		
Storage	8GB or 16GB / eMMC (embedded Multi Media Card) flash memory on board		
Storage extension	One microSD Card slot, support up to 32GB		
Display	7.0" (177.8mm) WSVGA (1024x600) TFT color, Twisted nematic (TN) technology, VibrantView (glossy), LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170 PPI (Pixels Per Inch), Viewing angle: 140° (+/- 70°) horizontal, 140° (+/- 70°) vertical Projected Capacitive Touch (PCT) technology, supports 5-point		
Multi-touch			
Camera	Front camera: 0.3-megapixel, fixed focus Rear camera: 2.0-megapixel, fixed focus		
Video capture	VGA@30FPS video capture (front camera), 720P@30FPS video capture (rear camera)		
Audio support	MT6329 audio codec / two speakers (0.7 watt x 2) / integrated microphone		
Media capable	Audio formats: MP3, AAC, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, APE, G.711(PCM) Video formats: VP8, MP4, H.263, H.264		
Keyboard	Virtual keyboard via Android, portrait and landscape support		
Control buttons	Volume up, volume down, and power buttons		
Keyboard Dock	None		
Light sensor	Ambient Light Sensor		
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer		
Gyroscope	None		
eCompass	None		
Ports	micro USB (Charger port and Data sync), microphone / headphone combo jack (3.5 mm)		
WLAN	11b/g/n wireless ⁴ , MediaTek MT6620 combo chip, Supports Wi-Fi, Bluetooth 4.0, and GPS		
WWAN	Some: Wireless WAN, MT6167 chipset, GSM/WCDMA/HSPA		
SIM card	Some: One SIM card slot		
Carrier	Some: AT&T®, contract required with service provider		
GPS	GPS, supports A-GPS (Assisted GPS) on WWAN (3G) models		
Bluetooth®	Bluetooth 4.0 wireless, integrated in MT6620		
FM radio	None		
Dimensions ³	(WxHxT): 7.6" x 4.8" x 0.45"; 192mm x 122mm x 11.5mm		
Weight ²	starting at 0.88 lb (400 g);		
Case color	Top: Black frame; Bottom: Matt black		
Case material	Top: Glass (on panel) and frame (Polycarbonate + 20% Glass Fiber); Bottom: Polycarbonate (PC)		
Battery - type	Lithium polymer, 1-cell (13.5Wh / 3550mAh)		
Battery - life ¹⁰	Up to 10 hours Wi-Fi Web browsing		
In the box	IdeaTab A2107, AC adapter (charger), micro USB to USB cable, and documentation		



IdeaTab A2109
(Front)



IdeaTab A2109
(Back)



IdeaTab A2109
(Top and Bottom)



IdeaTab A2109
(Left and Right)



IdeaTab A2109
Folio Cover (coming soon)



IdeaTab A2109
Screen Protector (coming soon)

Type-model / Part number	Processor	Memory	Display	Multi-Touch	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue-tooth	GPS	WWAN	Battery	OS preload
2290-1DU / 59331887	Tegra3 T30SL	1GB	9.0" TN	10-point	1.3M/3.0M	ULP GeForce	16GB ⁸	11b/g/n ²⁸	Black	BT3.0	GPS	None	2-cell	Android 4.0
<ul style="list-style-type: none"> • 9.0" Touchscreen tablet, just 11.65mm thin and 570g weight (vary by configuration) • Magnesium alloy Roll-Cage internal frame protects any drop breaking • 10-point capacitive multi-touch, with G-sensor and light sensor inside for a delightful interactive experience • 720p playback on tablet and micro-HDMI out for 1080p playback on your TV • SRS WOW HD audio enhancement makes audio sound become natural, clearer and beautiful • Built-in 22.94Wh rechargeable lithium polymer battery, up to 10 hours WIFI browsing • Off-line GPS technology allows direct satellite connection without any network support • Lenovo App Shop and Google Play ensure ready access to thousands of useful apps • Award-winning Lenovo Services to keep you on-line and on-the-go 														
Positioning	<i>Touchscreen tablet</i>													
Processor CPU	NVIDIA® Tegra® 3 T30SL Super 4-PLUS-1™ Quad Core (1.2 GHz per core) with 5th Battery Saver Core (up to 500MHz), 1MB L2 cache, ARM® Cortex™-A9 architecture													
GPU	NVIDIA ULP (Ultra-low power) GeForce GPU , integrated in Tegra 3, provides dedicated 2D/3D graphics hardware accelerator, OpenGL ES 2.0 supports 1080p Full HD video out via micro HDMI connector, 720p video on tablet													
Memory	1GB std / 1GB max ⁷ / 1333MHz DDR3L , mobile memory													
Storage	8GB or 16GB / eMMC (embedded Multi Media Card) flash memory on board													
Storage extension	One microSD Card slot, support up to 32GB													
Display	9.0" (228.6mm) WXGA (1280x800) TFT color , Twisted nematic (TN) technology, VibrantView (glossy), LED backlight , 250 nits, 16:10 aspect ratio, 700:1 contrast ratio, 168 PPI (Pixels Per Inch), Viewing angle: 120° (+70/-50°) horizontal, 140° (+/- 70°) vertical													
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 10-point													
Camera	<i>Front camera:</i> 1.3-megapixel, fixed focus <i>Rear camera:</i> 3.0-megapixel, fixed focus													
Video capture	VGA@30FPS video capture (front camera), 1080P / 720P video capture (rear camera)													
Audio support	Texas Instruments™ (TI™) TLV320AIC3262IYZFT audio codec / two speakers (0.5 watt x 2) / SRS WOW HD™ audio enhancement / integrated dual digital microphone													
Media capable	Audio formats: MP3, AAC-LC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, WAV/LPCM Video formats: VP8, MPEG-4, H.263, H.264, DivX													
Keyboard	Virtual keyboard via Android, portrait and landscape support													
Control buttons	Volume up / down button, power button, and screen rotation lock													
Keyboard Dock	None													
Light sensor	Ambient Light Sensor													
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer													
Gyroscope	None													
eCompass	None													
Ports	micro USB (Charger port and Data sync), micro-HDMI, microphone / headphone combo jack (3.5 mm)													
WLAN	11b/g/n wireless ⁴ , Broadcom® BCM4330 combo chip, Supports Wi-Fi and Bluetooth													
WWAN	None													
SIM card	None													
GPS	GPS (Global Positioning System), Broadcom BCM47511													
Bluetooth®	Bluetooth 3.0 wireless, integrated in BCM4330													
FM radio	None													
Dimensions ³	<i>(WxHxT):</i> 9.3" x 6.5" x 0.46"; 236mm x 164mm x 11.65mm													
Weight ²	starting at 1.26 lb (570 g);													
Case color	<i>Top:</i> Black frame; <i>Bottom:</i> Champagne gold color													
Case material	<i>Top:</i> Glass cover; <i>Bottom:</i> aluminum metal exterior shell													
Battery - type	Lithium polymer, 2-cell (22.94Wh / 6200mAh)													
Battery - life ¹⁰	Up to 10 hours Web browsing													
In the box	IdeaTab A2109, AC adapter (charger), USB cable, and documentation													
										Preloaded operating system²⁰ - Android™ 4.0 (Ice Cream Sandwich)				
										Preloaded applications¹⁴ (only some listed) Games <ul style="list-style-type: none"> • Exent GameTanium™ • Cut the Rope Business <ul style="list-style-type: none"> • Documents To Go® • Printershare™ for Lenovo • Norton™ Mobile Security SNS <ul style="list-style-type: none"> • ooVoo™ • Skype™ • PokeTalk Life <ul style="list-style-type: none"> • Accuweather • News Republic • Zinio • Amazon Kindle • ES File Explorer • GO Keyboard • Adobe® Flash player Lenovo <ul style="list-style-type: none"> • Lenovo Registration • Evernote • SugarSync App Store <ul style="list-style-type: none"> • Lenovo App Shop • Google Play 				
										10-watt AC adapter (5V/2A) RoHS-compliant				
										Limited Warranty¹² ➤ 1-year parts and labor for covered HW repairs only ➤ Available Warranty Extension: <ul style="list-style-type: none"> • 2-year (total duration) warranty extension 04W8188 ➤ 24x7¹⁶ toll-free support for warranty issues during the warranty period¹² via 877-453-6686 ➤ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html				

See footnotes for important warranty information
 US model(s) announced October 24, 2012

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 (HENG1-2) February 2013

IdeaTab™ A2109 (2290) - Wi-Fi (web only models)

Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Cores	Memory	Display	Multi-Touch	Camera Front/rear (Megapixel)	Graphics	Storage	WiFi 802.11	Back color	Blue-tooth	GPS	WWAN	Battery	OS preload
2290-1AU	Tegra3 T30SL	1.20	Quad	1GB	9.0" TN	10-point	1.3M/3.0M	ULP GeForce	8GB ⁸	11b/g/n ²⁸	Black	BT3.0	GPS	None	2-cell	Android 4.0
2290-1BU	Tegra3 T30SL	1.20	Quad	1GB	9.0" TN	10-point	1.3M/3.0M	ULP GeForce	16GB	11b/g/n	Black	BT3.0	GPS	None	2-cell	Android 4.0

- **9.0" Touchscreen tablet, just 11.65mm thin and 570g weight (vary by configuration)**
- **Magnesium alloy Roll-Cage internal frame protects any drop breaking**
- **10-point capacitive multi-touch, with G-sensor and light sensor inside for a delightful interactive experience**
- **720p playback on tablet and micro-HDMI out for 1080p playback on your TV**
- **SRS WOW HD audio enhancement makes audio sound become natural, clearer and beautiful**
- **Built-in 22.94Wh rechargeable lithium polymer battery, up to 10 hours WIFI browsing**
- **Off-line GPS technology allows direct satellite connection without any network support**
- **Lenovo App Shop and Google Play ensure ready access to thousands of useful apps**
- **Award-winning Lenovo Services to keep you on-line and on-the-go**

Positioning	Touchscreen tablet		Preloaded operating system ²⁰ - Android™ 4.0 (Ice Cream Sandwich) Preloaded applications ¹⁴ (only some listed) Games <ul style="list-style-type: none">• Exent GameTanium™• Cut the Rope Business <ul style="list-style-type: none">• Documents To Go®• Printershare™ for Lenovo• Norton™ Mobile Security SNS <ul style="list-style-type: none">• ooVoo™• Skype™• PokeTalk Life <ul style="list-style-type: none">• Accuweather• News Repuublic• Zinio• Amazon Kindle• ES File Explorer• GO Keyboard• Adobe® Flash player Lenovo <ul style="list-style-type: none">• Lenovo Registration• Evernote• SugarSync App Store <ul style="list-style-type: none">• Lenovo App Shop• Google Play
Processor CPU	NVIDIA® Tegra® 3 T30SL Super 4-PLUS-1™ Quad Core (1.2 GHz per core) with 5th Battery Saver Core (up to 500MHz), 1MB L2 cache, ARM® Cortex™-A9 architecture		
GPU	NVIDIA ULP (Ultra-low power) GeForce GPU , integrated in Tegra 3, provides dedicated 2D/3D graphics hardware accelerator, OpenGL ES 2.0 supports 1080p Full HD video out via micro HDMI connector, 720p video on tablet		
Memory	1GB std / 1GB max ⁷ / 1333MHz DDR3L , mobile memory		
Storage	8GB or 16GB / eMMC (embedded Multi Media Card) flash memory on board		
Storage extension	One microSD Card slot, support up to 32GB		
Display	9.0" (228.6mm) WXGA (1280x800) TFT color , Twisted nematic (TN) technology, VibrantView (glossy), LED backlight , 250 nits, 16:10 aspect ratio, 700:1 contrast ratio, 168 PPI (Pixels Per Inch), Viewing angle: 120° (+70/-50°) horizontal, 140° (+/- 70°) vertical Projected Capacitive Touch (PCT) technology, supports 10-point		
Multi-touch			
Camera	<i>Front camera:</i> 1.3-megapixel, fixed focus <i>Rear camera:</i> 3.0-megapixel, fixed focus		
Video capture	VGA@30FPS video capture (front camera), 1080P / 720P video capture (rear camera)		
Audio support	Texas Instruments™ (TI™) TLV320AIC3262IYZFT audio codec / two speakers (0.5 watt x 2) / SRS WOW HD™ audio enhancement / integrated dual digital microphone		
Media capable	Audio formats: MP3, AAC-LC, AAC+, eAAC+, AMR-NB/WB, FLAC, MIDI, Ogg Vorbis, WAV/LPCM Video formats: VP8, MPEG-4, H.263, H.264, DivX		
Keyboard	Virtual keyboard via Android, portrait and landscape support		
Control buttons	Volume up / down button, power button, and screen rotation lock		
Keyboard Dock	None		
Light sensor	Ambient Light Sensor		
G-sensor	Accelerometer (G) sensor, supports 3-axis accelerometer		
Gyroscope	None		
eCompass	None		
Ports	micro USB (Charger port and Data sync), micro-HDMI, microphone / headphone combo jack (3.5 mm)		
WLAN	11b/g/n wireless ⁴ , Broadcom® BCM4330 combo chip, Supports Wi-Fi and Bluetooth		
WWAN	None		
SIM card	None		
GPS	GPS (Global Positioning System), Broadcom BCM47511		
Bluetooth®	Bluetooth 3.0 wireless, integrated in BCM4330		
FM radio	None		
Dimensions ³	<i>(WxHxT):</i> 9.3" x 6.5" x 0.46"; 236mm x 164mm x 11.65mm		
Weight ²	starting at 1.26 lb (570 g);		
Case color	<i>Top:</i> Black frame; <i>Bottom:</i> Champagne gold color		
Case material	<i>Top:</i> Glass cover; <i>Bottom:</i> aluminum metal exterior shell		
Battery - type	Lithium polymer, 2-cell (22.94Wh / 6200mAh)		
Battery - life ¹⁰	Up to 10 hours Web browsing		
In the box	IdeaTab A2109, AC adapter (charger), USB cable, and documentation		
			10-watt AC adapter (5V/2A) RoHS-compliant
			Limited Warranty ¹² ↪ 1-year parts and labor for covered HW repairs only ↪ Available Warranty Extension: <ul style="list-style-type: none">• 2-year (total duration) warranty extension 04W8188 ↪ 24x7¹⁶ toll-free support for warranty issues during the warranty period ¹² via 877-453-6686 ↪ Award-winning local support, visit http://consumersupport.lenovo.com/us/en/supportphonenumber/supportphone.html

See footnotes for important warranty information
US model(s) announced October 24, 2012

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Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

- ¹ Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
- ² **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
- ³ **Thinness** may vary at certain points on the system.
- ⁴ **Wireless capability:** Requires compatible wireless-enabled options sold separately.
- ⁵ **Post-warranty annual maintenance agreement:** Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.
- ⁶ **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- ⁷ **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.
- ⁸ **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- ⁹ **Service upgrade options:** Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees.
- ¹⁰ **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.
- ¹¹ **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.
- ¹² **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
- ¹³ **Onsite Repair:** If a machine is listed as having "On-site", this means that on-site service is available for the replacement of parts for warranty repairs. Certain parts, referred to as Customer Replaceable Unit ("CRU") parts, are easy to install and require little or no tools or technical knowledge. Some examples of CRU parts are mice, keyboards, hard disk drives, speakers, and memory. If your problem can be resolved with a CRU, the Support Center will offer to ship the part to you for you to install.
- ¹⁴ **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- ¹⁵ **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- ¹⁶ **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.
- ¹⁸ **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary and may exclude some holidays.
- ¹⁹ **Depot repair service:** In the United States call 1-877-453-6686. The customer may be asked certain diagnostic questions before a courier is sent. Your purchase includes this depot repair service, available in the U.S. during the limited warranty period.
- ²⁰ **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.
- ²¹ **For combination drives,** maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.
- ²² **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part can be express shipped to you for quick replacement. For notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See terms and conditions for complete details and restrictions.

²⁵ **Wireless WAN Cards:** Wireless data service requires separate agreement with Verizon Wireless. Verizon Wireless, not Lenovo, is solely responsible for service. Monthly and airtime charges may apply. Service may not be available in all areas; purchaser is responsible for verifying with Verizon Wireless that service is available for the intended location before the purchase of the card. For complete details, including service plans, additional required hardware or software, and service coverage, visit www.verizonwireless.com.

²⁸ **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.



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