

# **2016 Legislator Device Options**

**Technology Subcommittee Meeting**  
**Monday, April 18, 2016**  
**8:45 a.m.**  
**LCR2**

Senator Heineman, Chair  
Representative Bolin, Vice Chair  
Representative Wink  
Senator Brown  
Representative Hawley

After research and evaluation by the LRC IT staff, attached are three Legislator device options for the Tech Subcommittee to consider.

Primary Legislator needs considered for evaluation:

- Email

- Internet

- Microsoft Office Suite (Word, Excel, PowerPoint, OneNote)

- Printing

- Mobil device management (MDM)

  - Remote password reset

  - Remote device wipe

## 2016 Legislator Device Options

iPad Pro									
<p style="text-align: center;"><b><u>Strengths</u></b></p> <ul style="list-style-type: none"> <li>• Best option for data consumption</li> <li>• Security and Remote Support/ Ease of remote management               <ul style="list-style-type: none"> <li>○ If device is lost or stolen device content can be locked or wiped remotely</li> <li>○ Passwords can be reset remotely</li> </ul> </li> <li>• Single platform for Legislator application development and training</li> <li>• Smart Connect Keyboard connection               <ul style="list-style-type: none"> <li>○ does not require a separate cord or separate charging</li> </ul> </li> <li>• Device does not need a fan (does not get as hot)</li> <li>• Less chance of OS corruption (viruses)</li> <li>• Touch screen and uses generic stylus</li> </ul>	<p style="text-align: center;"><b><u>Weaknesses</u></b></p> <ul style="list-style-type: none"> <li>• Top heavy when used in tablet mode</li> <li>• Additional training may be needed for 2/3 of our users</li> <li>• OneNote for appropriations</li> <li>• Apple ID's</li> <li>• Some additional staff training</li> <li>• Needs wireless printer for printing</li> </ul>								
<p><b>Cost estimates-</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">iPad</td><td style="text-align: right;">\$928</td></tr> <tr> <td style="text-align: right;">Keyboard/Case</td><td style="text-align: right;">145</td></tr> <tr> <td style="text-align: right;">AirWatch</td><td style="text-align: right;">45</td></tr> <tr> <td style="text-align: right;"><b>Total per device:</b></td><td style="text-align: right;"><b>\$1,118</b></td></tr> </table> <p><b>Total for 110 devices (includes 5 spares):</b> <span style="float: right;"><b>\$122,980</b></span></p>		iPad	\$928	Keyboard/Case	145	AirWatch	45	<b>Total per device:</b>	<b>\$1,118</b>
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AirWatch	45								
<b>Total per device:</b>	<b>\$1,118</b>								
<p><b>Additional Comments</b></p> <ul style="list-style-type: none"> <li>➤ 12.9" display</li> <li>➤ Microsoft Office Suite is included with Office 365 (Word, Excel, PowerPoint, OneNote)</li> <li>➤ Additional costs could include staff training on AirWatch, additional Legislator training, solution for OneNote replacement for Appropriations Committee. (A solution could also be used to improve the interim committee document flow/organization.)</li> <li>➤ Interns could use the hand me down iPad Airs with better keyboard/typing options.</li> <li>➤ Annual AirWatch cost is \$12.71 per device.</li> </ul>									

## 12" Dell Laptop (Latitude E7270)

- Robust programs for data creation
- Trackpad with buttons
- Touch screen and uses generic stylus
- Single platform to develop Legislator applications and training
- Integration with Office 365
- IT Staff more familiar with Windows platform

- Faithful Apple users
- Multiple points of failure for troubleshooting

Laptop	\$1,075
Remote support solution	80
Anti-virus	35

**Total per device: \$1,190**

**Total for 110 devices (includes 5 spares):** **\$130,900**

### Additional Comments

## 2016 Legislator Device Options

<b>Dual Devices</b>									
<p style="text-align: center;"><b><u>Strengths</u></b></p> <ul style="list-style-type: none"> <li>Returning users choose the device operating system – iOS or Windows</li> </ul>	<p style="text-align: center;"><b><u>Weaknesses</u></b></p> <ul style="list-style-type: none"> <li>Device maintenance and management                             <ul style="list-style-type: none"> <li>Redundant MDM solutions</li> </ul> </li> <li>Multiple platforms for Legislator application development and training</li> <li>Not efficient use of staff time to manage two platforms</li> <li>Inventory management (# of spare devices of each device type)</li> <li>Some additional staff training</li> </ul>								
<p><b>Cost estimate-</b></p> <table style="width: 100%; border: none;"> <tr> <td colspan="2" style="text-align: center;">Assuming:</td></tr> <tr> <td style="text-align: center;">2/3 iPad Pros</td><td style="text-align: right;">\$82,028</td></tr> <tr> <td style="text-align: center;">1/3 Windows Laptops</td><td style="text-align: right;">\$43,633</td></tr> <tr> <td style="text-align: center;"><b>Total:</b></td><td style="text-align: right;"><b>\$125,620</b></td></tr> </table>		Assuming:		2/3 iPad Pros	\$82,028	1/3 Windows Laptops	\$43,633	<b>Total:</b>	<b>\$125,620</b>
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2/3 iPad Pros	\$82,028								
1/3 Windows Laptops	\$43,633								
<b>Total:</b>	<b>\$125,620</b>								
<p><b>Additional Comments</b></p> <ul style="list-style-type: none"> <li>➤ For ordering scenarios, new users would receive an iPad Pro.</li> </ul>									

## iPad Pro

[Design](#) [Technology](#) [iOS 9](#) [Tech Specs](#) [Buy](#)

## Finish



Silver

Gold

Space Gray

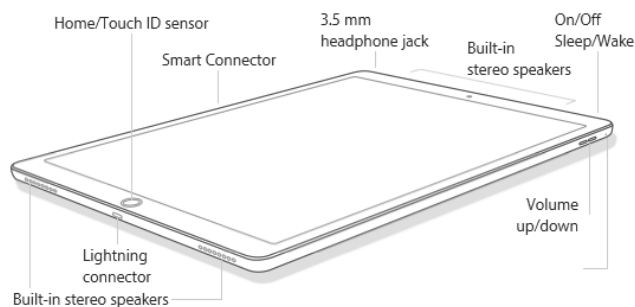
Capacity and Price<sup>1</sup>Wi-Fi models

32GB \$799

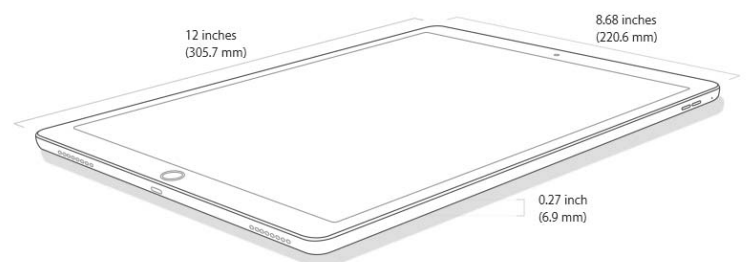
128GB \$949

Wi-Fi + Cellular  
model

128GB \$1079

Buttons and  
Connectors

Buttons and Connectors



Weight and Dimensions

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## In the Box

iPad Pro  
Lightning to USB Cable  
USB Power Adapter

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## Display

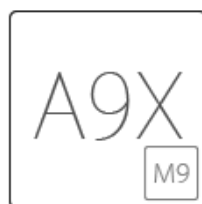


### Retina display

12.9-inch (diagonal) LED-backlit widescreen Multi-Touch display  
2732-by-2048 resolution at 264 pixels per inch (ppi)  
Fingerprint-resistant oleophobic coating  
Fully laminated display  
Antireflective coating

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## Chip



A9X chip with 64-bit architecture  
M9 motion coprocessor

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## iSight Camera

8MP iSight camera

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Autofocus  
*f*/2.4 aperture  
Five-element lens  
Hybrid IR filter  
Backside illumination  
Improved face detection  
Exposure control  
Panorama (up to 43MP)  
Burst mode  
Tap to focus  
Photo geotagging  
Timer mode

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## Video Recording

1080p HD video recording (30 fps)  
Slo-mo (120 fps)  
Time-lapse video with stabilization  
Video image stabilization  
Improved face detection  
3x video zoom  
Video geotagging

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## FaceTime HD Camera

1.2MP photos  
*f*/2.2 aperture  
720p HD video recording  
Backside illumination  
Auto HDR photos and videos  
Improved face detection  
Burst mode  
Exposure control  
Timer mode

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## FaceTime Calling<sup>3</sup>

FaceTime audio to any FaceTime-enabled device over Wi-Fi or cellular  
FaceTime video to any FaceTime-enabled device over Wi-Fi or cellular

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## Microphones

Dual microphones for calls, video recording, and audio recording

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## Cellular and Wireless

**Wi-Fi models**

Wi-Fi (802.11a/b/g/n/ac); dual channel (2.4GHz and 5GHz); HT80 with MIMO  
Bluetooth 4.2 technology

**Wi-Fi + Cellular model**

Wi-Fi (802.11a/b/g/n/ac); dual channel (2.4GHz and 5GHz); HT80 with MIMO  
Bluetooth 4.2 technology  
UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE  
(850, 900, 1800, 1900 MHz)  
CDMA EV-DO Rev. A and Rev. B (800, 1900 MHz)  
LTE (Bands 1, 2, 3, 4, 5, 7, 8, 13, 17, 18, 19, 20, 25, 26, 28, 29, 38, 39, 40, 41)<sup>4</sup>  
Data only<sup>5</sup>  
Includes Apple SIM — U.S. and UK only  
[Learn more about Apple SIM >](#)

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**Location****All models**

Digital compass  
Wi-Fi  
iBeacon microlocation

**Wi-Fi + Cellular model**

Assisted GPS and GLONASS  
Cellular

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**Sensors**

Touch ID  
Three-axis gyro  
Accelerometer  
Barometer  
Ambient light sensor

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**Touch ID**

Unlock iPad  
Secure personal data within apps  
Make purchases from the iTunes Store, App Store, and iBooks Store

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**Apple Pay**

Pay with your iPad using Touch ID within apps  
[Learn more about Apple Pay >](#)

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**Siri<sup>6</sup>**

Use your voice to send messages, set reminders, and more  
Use your iPad hands-free



Listen and identify songs  
[Learn more about Siri >](#)

## Power and Battery<sup>7</sup> All models

Built-in 38.5-watt-hour rechargeable lithium-polymer battery  
 Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music  
 Charging via power adapter or USB to computer system

### Wi-Fi + Cellular model

Up to 9 hours of surfing the web using cellular data network

## Operating System



iOS 9

With an all-new design and all-new features, iOS 9 is the world's most advanced mobile OS. In its most advanced form.  
[Learn more about iOS 9 >](#)

iOS 9 includes:

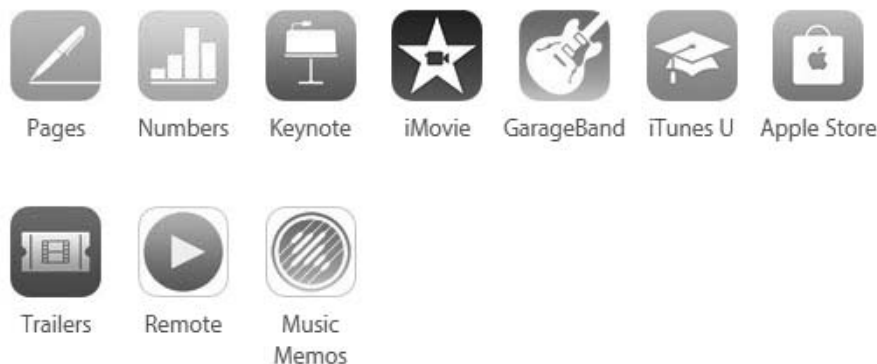
- AirDrop
- AirPlay
- AirPrint
- Control Center
- Notification Center
- Siri
- Spotlight Search
- Apple Music
- Family Sharing
- iCloud Drive
- Multitasking
- QuickType Keyboard

## Built-in Apps

Built-in apps are an essential part of your iPad experience and are efficiently designed to use less than 150MB of storage.



## Free Apps from Apple<sup>®</sup>



## System Requirements

Apple ID (required for some features)

Internet access<sup>®</sup>

### Syncing with iTunes on a Mac or PC requires:

- **Mac:** OS X v10.8.5 or later
- **PC:** Windows 7 or later
- iTunes 12.3 or later (free download from [www.itunes.com/download](http://www.itunes.com/download))

## Languages

### Language support

English (Australia, Canada, UK, U.S.), Chinese (Simplified, Traditional, Traditional Hong Kong), French (Canada, France), German, Italian, Japanese, Korean, Spanish (Mexico, Spain), Arabic, Catalan, Croatian, Czech, Danish, Dutch, Finnish, Greek, Hebrew, Hindi, Hungarian, Indonesian, Malay, Norwegian, Polish, Portuguese (Brazil, Portugal), Romanian, Russian, Slovak, Swedish, Thai, Turkish, Ukrainian, Vietnamese

### QuickType keyboard support

English (Australia, Canada, India, Singapore, UK, U.S.), Chinese - Simplified (Handwriting, Pinyin, Stroke), Chinese - Traditional (Cangjie, Handwriting, Pinyin, Stroke, Sucheng, Zhuyin), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian, Japanese (Kana, Romaji), Korean, Spanish (Mexico, Spain), Arabic, Bengali, Bulgarian, Catalan, Cherokee, Croatian, Czech, Danish, Dutch, Emoji, Estonian, Filipino, Finnish, Flemish, Greek, Gujarati, Hawaiian, Hebrew, Hindi (Devanagari, Transliteration), Hinglish, Hungarian, Icelandic, Indonesian, Latvian, Lithuanian, Macedonian, Malay, Marathi, Norwegian, Polish, Portuguese (Brazil, Portugal), Punjabi, Romanian, Russian, Serbian (Cyrillic, Latin), Slovak, Slovenian, Swedish, Tamil, Telugu, Thai, Turkish, Ukrainian, Urdu, Vietnamese

### QuickType keyboard support with predictive input<sup>10</sup>

English (Australia, Canada, India, Singapore, UK, U.S.), Chinese (Simplified, Traditional), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian, Japanese, Korean, Russian, Spanish (Mexico, Spain), Portuguese (Brazil, Portugal), Thai, Turkish

### Dictation languages

English (Australia, Canada, India, Ireland, New Zealand, Philippines, Singapore, South Africa, UK, U.S.), Spanish (Chile, Colombia, Mexico, Spain, U.S.), French (Belgium,

Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (Mainland China, Taiwan), Cantonese (Hong Kong), Arabic (Saudi Arabia, United Arab Emirates), Catalan, Croatian, Czech, Danish (Denmark), Dutch (Belgium, Netherlands), Finnish, Greek, Hebrew (Israel), Hungarian, Indonesian, Malaysian, Norwegian (Norway), Polish, Portuguese (Brazil, Portugal), Romanian, Russian (Russia), Slovakian, Swedish (Sweden), Turkish (Turkey), Thai (Thailand), Ukrainian, Vietnamese

**Siri languages**

English (Australia, Canada, India, New Zealand, Singapore, UK, U.S.), Spanish (Mexico, Spain, U.S.), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Italian (Italy, Switzerland), Japanese, Korean, Mandarin (Mainland China, Taiwan), Cantonese (Hong Kong), Arabic (Saudi Arabia, United Arab Emirates), Danish (Denmark), Dutch (Belgium, Netherlands), Norwegian (Norway), Russian (Russia), Swedish (Sweden), Turkish (Turkey), Thai (Thailand), Portuguese (Brazil)

**Definition dictionary support**

English, Chinese (Simplified), French, German, Hindi, Italian, Japanese, Korean, Spanish, Dutch, Norwegian, Portuguese (Brazil), Russian, Swedish, Thai, Turkish

**Bilingual dictionary support**

Chinese (Simplified), French, German, Japanese, Korean, Spanish

**Spell check**

English (Australia, Canada, UK, U.S.), French, German, Italian, Spanish, Danish, Dutch, Finnish, Korean, Norwegian, Polish, Portuguese (Brazil, Portugal), Russian, Swedish, Turkish

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## Audio Playback

Frequency response: 20Hz to 20,000Hz

Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV

User-configurable maximum volume limit

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## TV and Video

AirPlay Mirroring, photos, audio, and video out to Apple TV (2nd generation or later)

Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)

Video formats supported: H.264 video up to 1080p, 60 frames per second, High Profile level 5.0 with AAC-LC audio up to 160 Kbps, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; MPEG-4 video up to 2.5 Mbps, 640 by 480 pixels, 30 frames per second, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; Motion JPEG (M-JPEG) up to 35 Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file format

## Mail Attachment Support

### Viewable document types

.jpg, .tiff, .gif (images); .doc and .docx (Microsoft Word); .htm and .html (web pages); .key (Keynote); .numbers (Numbers); .pages (Pages); .pdf (Preview and Adobe Acrobat); .ppt and .pptx (Microsoft PowerPoint); .txt (text); .rtf (rich text format); .vcf (contact information); .xls and .xlsx (Microsoft Excel); .zip; .ics

## Environmental Requirements

**Operating ambient temperature:** 32° to 95° F (0° to 35° C)

**Nonoperating temperature:** -4° to 113° F (-20° to 45° C)

**Relative humidity:** 5% to 95% noncondensing

**Operating altitude:** tested up to 10,000 feet (3000 m)

- 1GB = 1 billion bytes; actual formatted capacity less.
  - Size and weight vary by configuration and manufacturing process.
  - FaceTime calling requires a FaceTime-enabled device for the caller and recipient and a Wi-Fi connection. Availability over a cellular network depends on carrier policies; data charges may apply.
  - For details on LTE support, contact your carrier and see [www.apple.com/ipad/LTE](http://www.apple.com/ipad/LTE).
  - Cellular data plan is sold separately. The model you purchase is configured to work with a particular cellular network technology. Check with your carrier for compatibility and cellular data plan availability.
  - Siri may not be available in all languages or in all areas, and features may vary by area. Internet access required. Cellular data charges may apply.
  - Testing conducted by Apple in August 2015 using preproduction iPad Pro units and software. Testing consisted of full battery discharge while performing each of the following tasks: video playback, audio playback, and Internet browsing using Wi-Fi or cellular data network. Video content was a repeated 2-hour 23-minute movie purchased from the iTunes Store. Audio content was a playlist of 358 unique audio tracks purchased from the iTunes Store. Internet over Wi-Fi and cellular data network tests were conducted using dedicated web and mail servers, browsing snapshot versions of 20 popular web pages, and receiving mail once an hour. All settings were default except: Wi-Fi was associated with a network (except for Internet browsing over cellular data network); the Wi-Fi feature Ask to Join Networks and Auto-Brightness were turned off; Brightness was set to 50%; and WPA2 encryption was enabled. Battery life depends on device settings, usage, and many other factors. Battery tests are conducted using specific iPad units; actual results may vary.
  - iMovie, Pages, Numbers, and Keynote are free on the App Store for qualifying iOS 9 compatible devices with initial activation on or after September 1, 2013. GarageBand is free on the App Store for qualifying iOS 9 compatible devices with initial activation on or after September 1, 2014. See [www.apple.com/ios/whats-new](http://www.apple.com/ios/whats-new) for iOS 9 compatible devices. Downloading apps requires an Apple ID.
  - Wireless broadband recommended; fees may apply.
  - Customized suggestions based on recipient and app are not available for Chinese (Simplified, Traditional), Japanese, Korean, and Thai.
- Some features may not be available for all countries or all areas. Click here to see complete list.

 > iPad > iPad Pro > Tech Specs

### Shop and Learn

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Accessories  
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### Apple Store

Find a Store  
Genius Bar  
Workshops and Learning  
Youth Programs  
Apple Store App  
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Financing  
Reuse and Recycling  
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iPad in Business  
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Apple Store Account  
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United States

# Latitude 12 7000 Series

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## Secure. Sleek. Powerful.

No one ever said security had to be boring. The Dell's most secure laptop also happens to be one of the world's most beautiful. Our industry-leading security features Dell Data Protection, including comprehensive encryption, advanced authentication and malware prevention. Additionally, this lightweight 12" is now thinner and lighter than ever. Now, you don't have to choose between style and security. And with 6th Gen Intel® Core™ vPro™ processors, you can power right through that workflow.



## Designed to impress. Built to last.

Style and structure intersect with premium materials, including a magnesium alloy chassis and LCD back, a spill-proof keyboard, optional woven carbon fiber with touch display, and a brilliant 12.5" screen. Choose an HD, FHD or FHD touch display with Corning® Gorilla® Glass NBT™.

## Loaded with high-tech features

**High-performance storage:** New optional M.2 PCIe solid-state drives deliver incredibly fast data transfer speeds.

**Next-gen memory:** Rely on faster memory speeds and improved power efficiency with the latest DDR4 memory.

**Best-in-class WiFi:** Optional 3x3 wireless delivers up to 1.3Gbps transfer speeds. That's 30% faster than traditional 2x2 Wifi.



## Perfect for mobile productivity

**All-day productivity:** Power up with a 55Whr battery with CRU design.

**Plenty of ports:** Connect it all with an HDMI, mini display port, three USB 3.0 ports, SD card reader, and RJ-45.

**Efficient anywhere:** An optional backlit keyboard to help you stay productive in any lighting.

# Latitude 12 7000 Series

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## Dimensions



Height: 0.74" (18.85 mm) x Width: 12.22" (310.5 mm) x Depth: 8.47" (215.15 mm)  
Weight: 2.77lbs (1.26Kg)

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### Processor

Intel® Core™ i5-6300U (Dual Core, 2.4GHz, 3M cache, 15W)

### Operating System

Windows 7 Professional English, French, Spanish 64bit (Includes Windows 10 Pro License)

### Memory

8GB (1x8GB) 2133MHz DDR4 Memory

### Hard Drive

M.2 256GB SATA Class 20 Solid State Drive

### Graphics Card

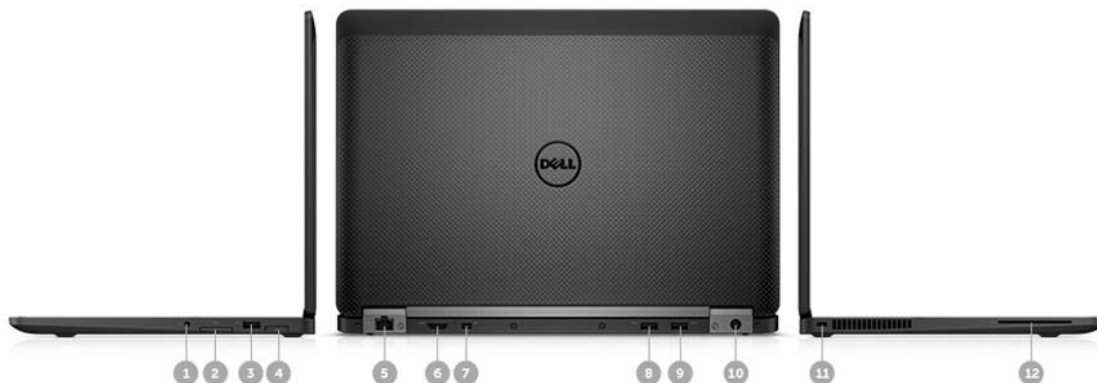
Intel Core i5-6300U Processor Base, Integrated HDGraphics 520

### Display

12.5" HD Touch FHD (1920 x 1080) LCD with Camera and mic, WIGIG Capable

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## Ports and slots



1. Headset connector | 2. Memory card reader | 3. USB 3.0 connector with PowerShare | 4. SIM port | 5. Network connector | 6. HDMI connector | 7. DisplayPort | 8. USB 3.0 connector | 9. USB 3.0 connector | 10. Power input | 11. Security cable slot | 12. Optional smart card reader