

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

2016 Legislator Device Options

Dual Devices									
<p style="text-align: center;"><u>Strengths</u></p> <ul style="list-style-type: none"> • Returning users choose the device operating system – iOS or Windows 	<p style="text-align: center;"><u>Weaknesses</u></p> <ul style="list-style-type: none"> • Device maintenance and management <ul style="list-style-type: none"> ○ Redundant MDM solutions • Multiple platforms for Legislator application development and training • Not efficient use of staff time to manage two platforms • Inventory management (# of spare devices of each device type) • Some additional staff training 								
<p>Cost estimate-</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td colspan="2" style="padding-left: 40px;">Assuming:</td> </tr> <tr> <td style="padding-left: 60px;">2/3 iPad Pros</td> <td style="text-align: right;">\$82,028</td> </tr> <tr> <td style="padding-left: 60px;">1/3 Windows Laptops</td> <td style="text-align: right;">\$43,633</td> </tr> <tr> <td style="padding-left: 60px;">Total:</td> <td style="text-align: right;">\$125,620</td> </tr> </table>		Assuming:		2/3 iPad Pros	\$82,028	1/3 Windows Laptops	\$43,633	Total:	\$125,620
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2/3 iPad Pros	\$82,028								
1/3 Windows Laptops	\$43,633								
Total:	\$125,620								
<p>Additional Comments</p> <ul style="list-style-type: none"> ➤ For ordering scenarios, new users would receive an iPad Pro. 									

iPad Pro

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

Finish



Silver

Gold

Space Gray

Capacity and Price¹Wi-Fi models

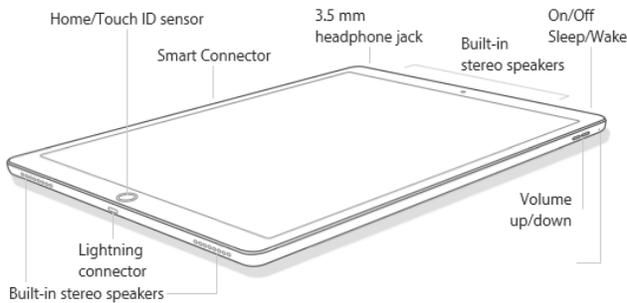
32GB \$799

128GB \$949

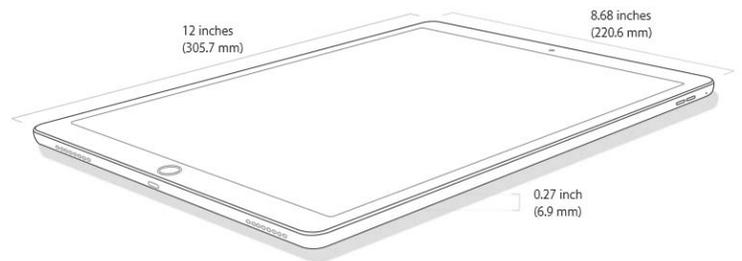
Wi-Fi + Cellular model

128GB \$1079

Buttons and Connectors



Buttons and Connectors



Weight and Dimensions

In the Box

iPad Pro
Lightning to USB Cable
USB Power Adapter

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

Chip



A9X chip with 64-bit architecture
M9 motion coprocessor

iSight Camera

8MP iSight camera

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

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

**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

FaceTime Calling³ FaceTime audio to any FaceTime-enabled device over Wi-Fi or cellular
FaceTime video to any FaceTime-enabled device over Wi-Fi or cellular

Microphones Dual microphones for calls, video recording, and audio recording

**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)⁴
Data only⁵
Includes Apple SIM — U.S. and UK only
[Learn more about Apple SIM >](#)

Location

All models

Digital compass
Wi-Fi
iBeacon microlocation

Wi-Fi + Cellular model

Assisted GPS and GLONASS
Cellular

Sensors

Touch ID
Three-axis gyro
Accelerometer
Barometer
Ambient light sensor

Touch ID

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

Apple Pay

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

Siri⁶

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 Battery⁷ 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.



Camera



Photos



Messages



FaceTime



Mail



Music



Safari



Maps



Siri



Calendar



iTunes Store



App Store



Notes



Contacts



iBooks



Game Center



Reminders



Clock



Videos



Photo Booth



Podcasts



News



Find My iPhone



Find My Friends



iCloud Drive

Free Apps from Apple⁸



Pages



Numbers



Keynote



iMovie



GarageBand



iTunes U



Apple Store



Trailers



Remote

Music
Memos

System Requirements

Apple ID (required for some features)

Internet access⁹

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)

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 input¹⁰

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

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

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.
 - 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 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.](#)

Apple > iPad > iPad Pro > Tech Specs

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United States

Latitude 12 7000 Series

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

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)

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

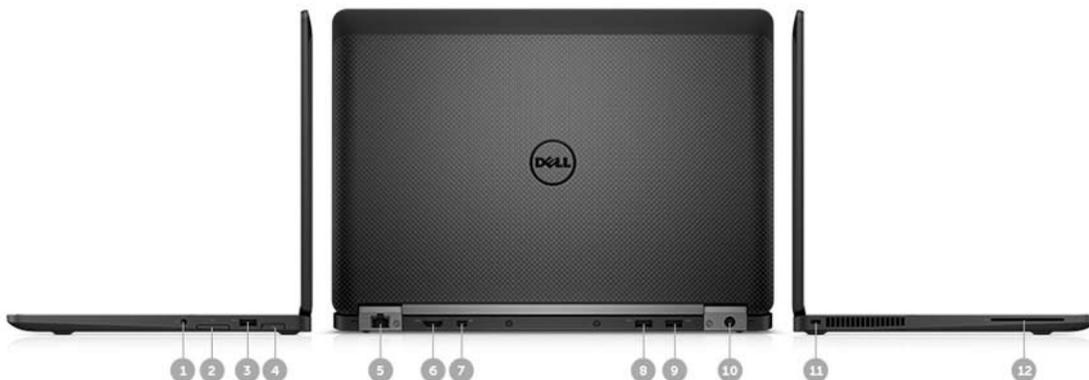
Graphics Card

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

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