

**VILLAGE OF WINDSOR  
VILLAGE BOARD RESOLUTION 2019-79**

**AUTHORIZING THE PURCHASE OF BADGER BOOKS**

**WHEREAS**, the Wisconsin Elections Commission (WEC) has approved the use of Badger Books for the election process; and

**WHEREAS**, the opportunity to purchase Badger Books for the 2020 election cycle will be from October 1 – October 31, 2019; and

**WHEREAS**, the Village of Windsor has a high regard for the election process and associated accuracy and efficiencies; and

**WHEREAS**, staff has viewed and researched the use of Badger Books by other Dane County communities and recommends their use based on how they streamline the election process, provide accuracy and increase efficiencies for staff and the voter; and

**WHEREAS**, the Village of Windsor has two polling places and staff recommends the purchase of nine Badger Book stations to accommodate voters at both voting locations; and

**WHEREAS**, Paragon Development Services (PDS) is the vendor for Badger Books and the projected costs associated with purchasing the required equipment is as follows:

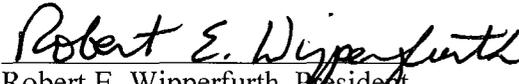
\$17,136.00 Badger Book with stand-alone printer (\$1,904 each)  
\$ 386.00 Router, thermal receipt paper and USB Device (\$193 each)  
\$17,522.00 Total Anticipated Cost

**NOW THEREFORE, BE IT RESOLVED**, by the Village Board of the Village of Windsor that it hereby authorizes the purchase of nine Badger Book stations and two router, thermal receipt paper and USB devices at a cost not to exceed \$18,000.00.

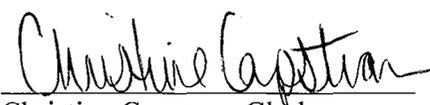
**BE IT FURTHER RESOLVED**, by the Village Board of the Village of Windsor that the purchase Badger Books be completed using \$5,000.00 from General Fund Election Supplies/Cost and the remaining balance from the Reserve/Replacement Fund Computer Equipment with the total cost not to exceed \$18,000.00.

The above and foregoing Resolution was duly adopted at a regular meeting of the Village Board of the Village of Windsor on August 1, 2019, by a vote of 5 in favor and 0 opposed.

**VILLAGE OF WINDSOR**

  
Robert E. Wipperfurth, President

Attested by:

  
Christine Capstran, Clerk

**Incorporated by Reference:**

Exhibit A: Memorandum from Clerk and Deputy Clerk

Exhibit B: Memorandum from Wisconsin Elections Commission

Exhibit C: HP Data Sheet

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**MEMORANDUM**

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**TO:** VILLAGE OF WINDSOR TRUSTEES

**FROM:** CHRISTINE CAPSTRAN, CLERK  
KADIE JO BUTTERIS, DEPUTY CLERK

**SUBJECT:** PURCHASE OF ELECTRONIC POLL BOOKS

**DATE:** JULY 26, 2019

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**Electronic Poll Book Overview**

In 2017, Wisconsin Elections Commission staff developed an electronic poll book system, known as “Badger Books”, to be used in polling places on Election Day. The Badger Book is primarily used to check in voters, process absentee ballots and register voters on Election Day.

Badger Books replace the current two-person, paper poll book system with a one-person tablet that replicates the poll book. The process for the voter on Election Day utilizing Badger Books would be very similar to the current process with paper poll books.

Voter registration is also streamlined using the Badger Book which can easily search for current voter data allowing the voter to only update needed information like an address or new last name while all other information automatically populates.

After Election Day, a data file generated from the Badger Book is used to upload Election participation and Election Day Registration information into the state-wide system called WisVote. This replaces the current process of staff manually entering in voter participation and Election Day registration information.

Since development, 17 municipalities have purchased the equipment necessary to implement the use of Badger Books including Sun Prairie, DeForest, McFarland and Cottage Grove.

**Equipment**

The Badger Book is currently supported on the HP ElitePOS 141 Point of Sale retail terminal. One Badger Book station includes the main terminal computer with a touch screen for electronic signature capture, a wireless mouse, a wireless keyboard, a barcode scanner, a case of thermal printer paper, and a printer that can either be integrated into

the terminal base column or as a stand-alone printer. Additionally, a router and an encrypted, password protected USB memory stick must be purchased for each polling place. The router facilitates communication locally between the Badger Book machines. The USB stick is used to transfer data from an internet-connected computer to the Badger Book server machine. Refer to attached invoice for cost.

Of note, these machines are not connected to the internet.

### **Time and Cost Savings of Implementing Electronic Poll Books**

Badger Books creates efficiencies and streamlines the election process. Some of the benefits offered by Badger Books:

- **Eliminate Line Inequity:** Currently, paper poll books are split by letters, which create different lines and varying wait times in certain lines. Badger Books will eliminate the need to split the poll book and create different lines. Voters will be checked in on a first come first serve basis. There will be one line for all voters including new registrations.
- **Guidance for Election Inspectors:** Badger Books provide guided directions to help remove the potential for errors and to ensure the statutory voter process is being followed.
- **Fewer Election Inspectors Needed on Election Day:** Paper poll books require two Election Inspectors for the process. Badger Books only require one Election Inspector at each machine.
- **Absentee Processing:** Currently, the Monday before an Election, poll workers assist with Absentee ballot prep by assigning numbers and entering the number into the paper Poll Books and Absentee Logs. This can take over 5 hours with 12 people for November elections. If Badger Books are utilized, all absentee ballots can be entered on Election Day by one person in approximately 4 hours.
- **Accuracy of Information:** Badger Books are set up to have new voter registration information entered in on Election Day, which means the voter can verify that accurate information is being put into the statewide voter system.
- **Poll List Reconciliation:** Poll Book workers spend roughly 1-2 hours reconciling the poll books at the close of an Election. With Badger Books, there is no reconciliation necessary.
- **Post-Election:** After the election, staff can spend upwards of 3 weeks on large elections recording voter participation and entering in new voter registrations. Plus, filling the hundreds of registration forms. With Badger Books, the post-election tasks are anticipated to take a few days.

**Recommendation:** Staff recommends the purchase of 9 Badger Books, with 4 to be used at the Windsor Municipal Building and 5 to be used at the Lake Windsor Country Club. The purchase of Badger Books will greatly reduce staff time, reduce election worker time, provide accuracies and create an overall streamlined process.



# Wisconsin Elections Commission

212 East Washington Avenue | Third Floor | P.O. Box 7984 | Madison, WI 53707-7984  
(608) 266-8005 | elections@wi.gov | elections.wi.gov

**DATE:** May 31, 2019

**TO:** Wisconsin Municipal Clerks  
Wisconsin County Clerks  
City of Milwaukee Election Commission  
Milwaukee County Election Commission

**FROM:** Michelle R. Hawley, WisVote Training Officer  
Michael Sabaka, Elections Security Trainer

**SUBJECT:** **Badger Book Purchasing and Borrowing Processes – 2020 Elections**

The Wisconsin Elections Commission (WEC) is making Badger Books available to purchase for the 2020 elections. The WEC will also continue the Badger Book Borrowing Program for the February 18 Spring Primary, as well as the August 11 Partisan Primary.

## Purchasing

The window to place a Badger Book order will be from October 1 – October 31. Municipalities that purchase, will do so directly to Paragon Development Service (PDS), the provider of the Badger Book hardware. We will provide additional information and instructions to place an order as the purchasing window draws near. For your information, listed below are the current expected costs associated with purchasing as provided by PDS. Direct quotes will be provided to each interested municipality by PDS. If your municipality is interested in purchasing Badger Books, please click on the link at the conclusion of this communication to complete a brief survey.

### **Package 1 – Badger Book with Integrated Column Printer**

- \$1880.00 per Badger Book Station
- \$228.00 per Polling Place (router, thermal receipt paper, and USB Device)

### **Package 2 – Badger Book with Stand-Alone Printer**

- \$1904.00 per Badger Book Station
- \$193.00 per Polling Place (router, thermal receipt paper, and USB Device)

## Borrowing

Due to the anticipated turnout for the April and November elections, the WEC will not offer an opportunity to borrow Badger Books for those elections. However, WEC will offer the opportunity to borrow Badger Books for the February 18 Spring Primary and the August 11 Partisan Primary. There are a limited number of Badger Books to lend per election. If your municipality is interested in participating in the Badger Book Borrowing Program, please click on the link at the conclusion of this communication to complete a brief survey.

*Wisconsin Elections Commissioners*

Dean Knudson, chair | Julie M. Glancey | Ann S. Jacobs | Jodi Jensen | Mark L. Thomsen

*Administrator*  
Meagan Wolfe

### **Device Information**

Two Badger Book configurations are available for borrowing and purchasing, and both packages include HP's ElitePOS G1 8GB retail unit as the main piece of hardware. The data sheet for this device is attached. Each package also contains a 2-D barcode scanner, thermal receipt printing functionality, Windows 10 Pro, a wireless keyboard and mouse, and PDS configuration services. A per polling place package includes a wireless router, a secure USB, thermal receipt paper, and configuration services.

Badger Books with an integrated column printer are about two inches taller and will require more frequent printer paper replacement, however they do not need to be manually connected to the ElitePOS unit (Badger Book Tower) with a cord, unlike the Badger Book stand-alone unit.

The WEC will be exploring additional hardware options for Badger Book implementation AFTER the 2020 Elections. All current Badger Book models will continue to be supported into the future, regardless of whether or not the WEC decides on a new Badger Book model.

In an effort to gauge interest for purchasing and borrowing (February and August only) Badger Books, we request all interested municipalities click the link below and complete the survey. **The purchasing and borrowing survey will close at 5:00 p.m. on June 21, 2019.**

<https://www.surveymonkey.com/r/3Y9XHDC>

Should municipalities choose to purchase or borrow Badger Books for use in 2020 elections, WEC staff will be in contact regarding implementation, training, etc., to ensure they have the support necessary for a successful implementation.

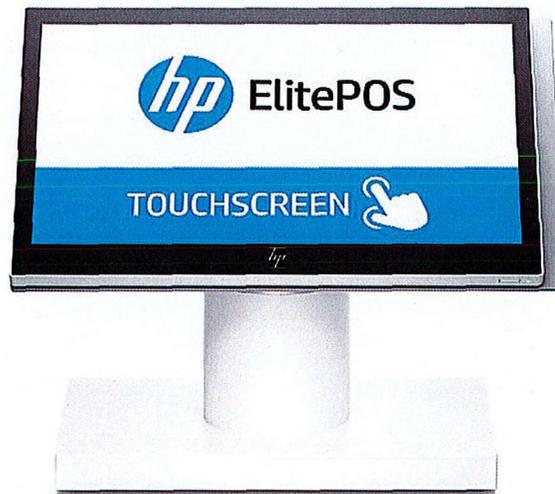
If you have additional questions about the Badger Book Borrowing or Purchasing Programs, please contact the WEC Help Desk at (608) 261-2028 or [elections@wi.gov](mailto:elections@wi.gov). If you have technical hardware questions, please contact Dana Berner at (262) 569-5366 or [teamgovedu@pdsit.net](mailto:teamgovedu@pdsit.net).



## Datasheet

# HP Engage One All-in-One System

Transform your retail space with a versatile point of sale system that elevates the customer experience and supports your critical business operations. With security, durability, and flexibility built into its gorgeous design, the HP Engage One system marks a new era in retail.



HP recommends Windows 10 Pro.

### **Sleek. Modern. Adaptable.**

Build the ideal checkout, interactive signage or self-service solution for your retail or hospitality environment with the streamlined, versatile HP Engage One system and its accessory ecosystem, all available in a choice of colors.

### **Secure data. Protect customers.**

Today's business calls for next-level security. The HP Engage One answers with a self-healing PC BIOS and firmware that shields the BIOS against attacks to help keep your data, devices, and customers safe and secure.

### **Durable. Powerful. Built for the day ahead.**

Power through your peaks with 7th generation Intel® processors and a durable system that has a 5-year lifecycle and up to a 3-year standard limited warranty.<sup>2</sup> Get up to 5 years peace of mind with optional HP Care Pack.<sup>3</sup>

### **Additional Features**

- Enjoy Windows management and security features that support seamless integration with your existing Windows apps and infrastructure.
- Set a new bar for sophistication with components and accessories that complement the HP Engage One aesthetic, including stands, magnetic stripe reader, barcode scanner, customer-facing displays, and an in-column or standalone receipt printer.
- Engage customers and enable associates with a modern, polished 14" diagonal touchscreen display that's intuitive and responsive for fast interaction and has an anti-glare coating to minimize light interference.
- Entrust a device that's not only beautiful but retail-hardened. It's designed to pass MIL-STD 801G with a sturdy, anodized aluminum chassis that resists spills by channeling liquids away from the screen.
- Get extra protection with automatic updates and security checks from HP BIOSphere Gen3. Control application and system access with Device Guard, Credential Guard, and an optional fingerprint reader.
- The HP Engage One is ready for duty with 7th generation Intel® processors, efficient M.2 storage, fast DDR4 memory, and optional wireless LAN with Bluetooth®. An integrated SD card reader supports easy backup, deployment, and servicing.
- HP Device as a Service delivers the HP Engage One as a complete solution of hardware, insightful analytics, and services for every phase of the device lifecycle—with one, easy, predictable price per device.

## HP Engage One All-in-One System Specifications Table



<b>Available Operating System</b>	Windows 10 Pro 64-bit <sup>1</sup> Windows 10 IoT Enterprise 2016 LTSC 64-bit <sup>1</sup> FreeDOS SUSE Linux Enterprise Desktop 12 (certification only)
<b>Processor Family<sup>3</sup></b>	7th Generation Intel® Core™ i5 processor 7th Generation Intel® Core™ i3 processor Intel® Celeron® processor
<b>Available Processors<sup>2,3,7</sup></b>	Intel® Celeron® 3965U with Intel® HD Graphics 610 (2.2 GHz, 2 MB cache, 2 cores); Intel® Core™ i3-7100U with Intel® HD Graphics 620 (2.4 GHz, 3 MB cache, 2 cores); Intel® Core™ i5-7300U with Intel® HD Graphics 620 (2.6 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology 2.0, 3 MB cache, 2 cores)
<b>Chipset</b>	Multi-chip package
<b>Maximum Memory</b>	32 GB DDR4-2400 SDRAM <sup>4</sup> (Transfer rates up to 2400 MT/s.)
<b>Memory Slots</b>	2 SODIMM
<b>Internal Storage</b>	128 GB up to 512 GB SATA SSD (M.2) <sup>5</sup> 128 GB up to 1 TB PCIe® NVMe™ SSD <sup>5</sup>
<b>Display</b>	14" diagonal FHD anti-glare touch screen (1920 x 1080) 35.56 cm (14") diagonal FHD anti-glare touch screen (1920 x 1080)
<b>Available Graphics</b>	Integrated: Intel® HD Graphics 610; Intel® HD Graphics 620
<b>Audio</b>	Integrated HD audio with Realtek ALC3228 codec with standards internal speakers and stereo headphone jack
<b>Communications</b>	LAN: Broadcom BCM9432287 802.11n wireless M.2 with Bluetooth®; Realtek RTL8153 <sup>14</sup> WLAN: Intel® 3165 802.11ac wireless M.2 with Bluetooth®; Intel® 8265ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro™; Intel® 8265ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, vPro™; Realtek 802.11b/g/n (1x1) Wi-Fi® and Bluetooth® 4.0 Combo
<b>Expansion Slots</b>	1 M.2 2230; SD card reader <sup>6</sup>
<b>Ports and Connectors</b>	Back: 1 cash drawer connector; 1 power connector; 1 RJ-45; 1 USB Type-C™ (charging); 2 serial; 4 USB 3.0; 1 Powered 24 Volt USB; 2 Powered 12 Volt USB <sup>13</sup> Side: 1 headset connector <sup>14</sup>
<b>Internal Drive Bays</b>	One M.2
<b>Available Software</b>	HP business PCs are shipped with a variety of software titles including: HP BIOSphere with Sure Start Generation 3.0, HP Support Assistant, HP Device Guard, HP Credential Guard. Please refer to this product's quick spec document for a full list of preinstalled software. <sup>9</sup>
<b>Security Management</b>	Power-on password (via BIOS); Setup password (via BIOS); VESA mounting; HP ElitePOS Keyed Cable Lock; HP FingerPrint Sensor (optional); HP BIOSphere with SureStart Gen 3; Device guard; Credential guard and password protection; Trusted Platform Module TPM 2.0 Embedded Security Chip; USB enable/disable (via BIOS) <sup>9,12</sup>
<b>Power</b>	120 W, 88% efficiency, active PFC (basic base); 180 W, 89% efficiency, active PFC (advanced base); 65 W, 89% efficiency at 20 V, active PFC (display head unit)
<b>Dimensions (W x D x H)</b>	13.23 x 8.51 x 0.69 in (head unit); 3.77 x 3.77 x 10.2 in (stand with column printer); 11.23 x 6.37 x 1.14 in (connectivity base) 33.62 x 21.64 x 1.76 cm (head unit); 9.6 x 9.6 x 26 cm (stand with column printer); 28.4 x 16.2 x 2.92 cm (connectivity base)
<b>Weight</b>	2.92 lb (rotate stand); 2.39 lb (fixed stand); 3.03 lb (head unit); 1.23 lb (connectivity base); 4.26 lb (printer) 1.33 kg (rotate stand); 1.09 kg (fixed stand); 1.38 kg (head unit); 0.56 kg (connectivity base); 1.94 kg (printer)
<b>Environmental</b>	Low halogen <sup>11</sup>
<b>Energy Efficiency Compliance</b>	ENERGY STAR® certified and EPEAT® registered configurations available <sup>10</sup>

## HP Engage One All-in-One System

Accessories and services (not included)

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### HP ElitePOS W Top Mount 2x20 CFD

Frame easily readable price, product, and order information for customers on the HP ElitePOS Top Mount 2 x 20 CFD, HP's smallest and thinnest CFD, designed to complement your HP ElitePOS. It has cleanable<sup>1</sup> edge-to-edge glass and customizable colors and fonts so you can personalize your content.  
**Product number: 3G518AA**

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### HP ElitePOS W 2D Barcode Scanner

Deliver an efficient customer experience with the breathtaking HP ElitePOS 2D Barcode Scanner, HP's smallest, slimmest barcode scanner, designed to complement the HP ElitePOS. It reads mobile wallets, digital coupons, and printed barcodes and can be used by hand or in presentation mode.  
**Product number: 3G520AA**

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### HP ElitePOS W 10.1-inch Touch Display

Share dynamic content with customers and enable them to input their data for a personalized experience with the HP ElitePOS 10.1 in Touch Display for the HP ElitePOS. It has a durable, cleanable<sup>1</sup>, edge-to-edge touchscreen, adjustable stand for optimal placement, and simple USB-C™ connectivity.  
**Product number: 3FH67AA**

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### HP ElitePOS W 10.1-inch Display

Share dynamic videos and content with customers on a display that gets attention in any room with the HP ElitePOS 10.1 in Non-Touch Display for the HP ElitePOS. It has durable, cleanable<sup>1</sup>, edge-to-edge glass, an adjustable stand for optimal counter placement, and simple USB-C™ connectivity.  
**Product number: 3FH66AA**

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### HP ElitePOS W Fingerprint Reader

Enable secure, accurate employee log in protocols and help reduce opportunities for theft with the minimalist HP ElitePOS Biometric Fingerprint Reader. It's designed for your HP ElitePOS, can be configured next to the stand or as a standalone, and intuitively confirms successful reads.  
**Product number: 3G521AA**

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## Messaging Footnotes

- <sup>1</sup> Optional features sold separately or as add-on features.  
<sup>2</sup> 1- or 3-year limited warranty, depending on country.  
<sup>3</sup> HP Care Pack Services are optional. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <http://www.hp.com/go/cpc>. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.  
<sup>4</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>  
<sup>5</sup> MIL-STD testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.  
<sup>6</sup> HP BIOSphere Gen3 requires Intel® or AMD® 7th generation processors.  
<sup>7</sup> Microsoft Device Guard and Credential Guard are available with Windows 10 IoT Enterprise 2016 LTSB delivered from HP or to customers with a volume license to use Windows 10 Enterprise. Microsoft Device Guard and Credential Guard are not available with Windows 10 Pro. The installation of Windows 10 Enterprise and Microsoft Device Guard and Credential Guard are available through HP Configuration & Deployment Services.  
<sup>8</sup> Wireless access point and Internet access required.  
<sup>9</sup> Please contact your HP representative or authorized HP reseller for details. Device support may vary by country. Features vary among Standard, Enhanced, and Premium HP Device as a Service plans. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

## Technical Specifications Footnotes

- <sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com/>  
<sup>2</sup> Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance  
<sup>3</sup> Your product does not support Windows 8 or Windows 7. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.  
<sup>4</sup> Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.  
<sup>5</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.  
<sup>6</sup> Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.  
<sup>7</sup> Intel® HD Graphics 610: integrated on Celeron™ G3965U; Intel® HD Graphics 620: integrated on 7th gen Core™ i7/i5/i3 processors.  
<sup>8</sup> Optional MSR is integrated directly into display head unit.  
<sup>9</sup> HP BIOSphere with Sure Start available only on business PCs with HP BIOS. HP BIOSphere Gen 3 requires Intel® 7th generation processors.  
<sup>10</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at [www.hp.com/go/options](http://www.hp.com/go/options).  
<sup>11</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen. Standard configurations meet the low halogen specifications however, some custom feature components may not meet the same Low Halogen standard. A standard configuration includes display head, rotate / tilt or fixed position stand, stability plate and I/O Connectivity Base.  
<sup>12</sup> Device Guard is only available with Windows 10 IoT 64 Enterprise LTSB for Retail. Device Guard is not available with Windows 10 Pro.  
<sup>13</sup> Optional HP Engage Go Advanced I/O Connectivity Base specs shown. Optional HP Engage Go Basic I/O Hub and HP USB-C Hub also available. Refer to system quick specs for full I/O specification <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05573243s>.  
<sup>14</sup> LAN - in Retail I/O Connectivity Base.  
<sup>15</sup> For further details please refer to Quick Specs document.

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 4AA7-2170ENUC, 12/12/2018

