

**DESKTOP STANDARD**

**Standard Specifications**

All specifications must comply with the followings terms and conditions:

- EPEAT Gold for laptops and desktops, and EPEAT Gold or Silver for tablets,
- ENERGY STAR, for laptops, desktops, and tablets,
- 19 USC 2501 Trade Agreements Act, for laptops, desktops, and tablets,
- Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), for laptops, desktops, and tablets,
- Delivery 30 days or less, for laptops, desktops, and tablets, unless otherwise negotiated, prior to award, between customer and contract holder

|   |   |
|---|---|
| CPU: Salient processor and platform characteristics | CPU must be latest generation processor technology.<br>- Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot,<br>- Processor and chipset support for Trusted execution environment with a crypto module in hardware that is FIPS 140-2 (in process allowed but validated is preferred),<br>- Processor and chipset support for AES Processor Accelerated Encryption,<br>- Processor and chipset support for PKI secure remote power up/down/reset,<br>- Stable image hardware platform that is available for at least 12 months,<br>- Virtualization Technology for Directed I/O |
| Operating System:                                   | Windows 10 Pro 64   |
| RAM:  | 8GB RAM expandable to 16 GB   |
| Hard Drive:   | 500GB HDD or SSD  |
| Display/Graphics:                                   | Integrated HD Graphics w/ Dual Monitor Support  |
| Sound:  | Stereo output   |
| Speakers:   | Integrated headphone and stereo speaker jacks or via splitter   |
| Optical Drive:                                      | Not required  |
| Mouse:  | USB or wireless optical mouse with scroll   |
| Keyboard:   | USB or wireless keyboard  |
| Smart Card Reader:                                  | FIPS-201 Approved Transparent Smart Card Reader (Keyboard Integrated or USB)  |
| Network Interface:                                  | Gigabit Ethernet or wireless  |
| Ports:  | 4 USB ports (at least 2 USB 3.0 or C), support for dual monitors  |
| Expansion Slots:                                    | 2 PCI Slots available (PCI and/or PCIe)   |
| Platform Integrity:                                 | TPM Version 2.0 (needed for Win 10)   |

**Add-ons for Desktop Standard**

|   |   |
|---|---|
| Optional Monitor:                             | 23.6 inch viewable  |
| Optional speakers:                            | Stereo Speakers   |
| Optional Graphics Card upgrade:               | Discrete Graphics card  |
| Optional Security-enabled features:           | Webcam, microphone and Bluetooth not provided or disabled at BIOS; no optical drive |
| Optional Optical drive:                       | Internal or External DVD RW(No Blu-Ray)   |
| Optional disk drive (primary):                | HDD or SSD  |
| Optional memory upgrade:                      | Upgrade to 16 GB  |
| Optional Warranty:                            | Extend standard manufacturer base warranty to 4 years                               |
| Optional Warranty:                            | Extend standard manufacturer base warranty to 5 years                               |
| Optional imaging - pre-supplied:              | Ship with customer previously supplied and approved image                           |
| Optional imaging - image provided with order: | Ship with customer supplied image at the time of the order                          |
| Asset tagging:                                | Tag assets before shipping  |
| Warehousing:                                  | Store assets  |
| Processor Upgrade:                            | Must meet or exceed base processor  |
| Clock Speed Upgrade:                          | Must meet or exceed base processor speed  |

**DESKTOP MID-LEVEL**

**Standard Specifications**

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- 19 USC 2501 Trade Agreements Act, for laptops, desktops, and tablets,
- Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), for laptops, desktops, and tablets,
- Delivery 30 days or less, for laptops, desktops, and tablets, unless otherwise negotiated, prior to award, between customer and contract holder

|   |   |
|---|---|
| CPU: Salient processor and platform characteristics | CPU must be latest generation processor technology.<br>- Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot,<br>- Processor and chipset support for Trusted execution environment with a crypto module in hardware that is FIPS 140-2 (in process allowed but validated is preferred),<br>- Processor and chipset support for AES Processor Accelerated Encryption,<br>- Processor and chipset support for PKI secure remote power up/down/reset,<br>- Stable image hardware platform that is available for at least 12 months,<br>- Virtualization Technology for Directed I/O |
| Operating System:                                   | Windows 10 Pro 64   |
| RAM:  | 16GB expandable to 32 GB  |
| Hard Drive:   | 500GB HDD or SSD  |
| Display/Graphics:                                   | Integrated HD graphics with dual monitor support and a slot available for a discrete card   |
| Sound:  | Stereo output   |
| Speakers:   | Integrated headphone and stereo speaker jacks or via splitter   |
| Optical Drive:                                      | Not required  |
| Mouse:  | USB or wireless optical mouse with scroll   |
| Keyboard:   | USB or wireless keyboard  |
| Smart Card Reader:                                  | FIPS-201 Approved Transparent Smart Card Reader (Keyboard Integrated)   |
| Network Interface:                                  | Gigabit Ethernet or wireless  |
| Ports:  | 4 USB ports (at least 3 USB 3.0 or C), support for dual monitors  |
| Expansion Slots:                                    | 2 PCI Slots available (PCI and/or PCIe)   |
| Platform Integrity:                                 | TPM Version 2.0 (needed for Win 10)   |

**Add-ons for Desktop Mid-Level**

|   |   |
|---|---|
| Optional Monitor:                             | 23.6 inch viewable  |
| Optional speakers:                            | Stereo Speakers   |
| Optional Graphics Card upgrade:               | Discrete Graphics card  |
| Optional Security-enabled features:           | Webcam, microphone and Bluetooth not provided or disabled at BIOS; no optical drive |
| Optional Optical drive:                       | Internal or External DVD RW (No Blu-Ray)  |
| Optional disk drive (primary):                | HDD or SSD  |
| Optional memory upgrade:                      | Upgrade to 32 GB  |
| Optional Warranty:                            | Extend standard manufacturer base warranty to 4 years                               |
| Optional Warranty:                            | Extend standard manufacturer base warranty to 5 years                               |
| Optional imaging - pre-supplied:              | Ship with customer previously supplied and approved image                           |
| Optional imaging - image provided with order: | Ship with customer supplied image at the time of the order                          |
| Asset tagging:                                | Tag assets before shipping  |
| Warehousing:                                  | Store assets  |
| Processor Upgrade:                            | Must meet or exceed base processor  |
| Clock Speed Upgrade:                          | Must meet or exceed base processor speed  |

**DESKTOP HIGH-END**

**Standard Specifications**

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- 19 USC 2501 Trade Agreements Act, for laptops, desktops, and tablets,
- Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), for laptops, desktops, and tablets,
- Delivery 30 days or less, for laptops, desktops, and tablets, unless otherwise negotiated, prior to award, between customer and contract holder

|   |   |
|---|---|
| CPU: Salient processor and platform characteristics | CPU must be latest generation processor technology.<br>- Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot,<br>- Processor and chipset support for Trusted execution environment with a crypto module in hardware that is FIPS 140-2 (in process allowed but validated is preferred),<br>- Processor and chipset support for AES Processor Accelerated Encryption,<br>- Processor and chipset support for PKI secure remote power up/down/reset,<br>- Stable image hardware platform that is available for at least 12 months,<br>- Virtualization Technology for Directed I/O |
| Operating System:                                   | Windows 10 Pro 64   |
| RAM:  | 32GB expandable to 64 GB  |
| Hard Drive:   | 256 GB Solid-State Drive (SSD) and a 1TB SATA   |
| Display/Graphics:                                   | Integrated HD graphics with dual monitor support and/or a slot available for a discrete card  |
| Sound:  | Stereo output   |
| Speakers:   | Integrated headphone and stereo speaker jacks or via splitter   |
| Optical Drive:                                      | DVD RW (No Blu-Ray)<br>DVD with all applicable hardware drivers, both 32Bit and 64Bit   |
| Mouse:  | USB or wireless optical mouse with scroll   |
| Keyboard:   | USB or wireless keyboard  |
| Smart Card Reader:                                  | FIPS-201 Approved Transparent Smart Card Reader (Keyboard Integrated)   |
| Network Interface:                                  | Gigabit Ethernet or wireless  |
| Ports:  | 6 USB ports (at least 4 USB 3.0 or C), support for dual monitors  |
| Expansion Slots:                                    | 2 PCI Slots available (PCI and/or PCIe)   |
| Platform Integrity:                                 | TPM Version 2.0 (needed for Win 10)   |

**Add-ons for Desktop High-end**

|   |   |
|---|---|
| Optional Monitor:                             | 23.6 inch viewable  |
| Optional speakers:                            | Stereo Speakers   |
| Optional Graphics Card upgrade:               | Discrete Graphics card  |
| Optional Security-enabled features:           | Webcam, microphone and Bluetooth not provided or disabled at BIOS; no optical drive; network default to wired |
| Optional Optical drive:                       | (Optical drive already included)  |
| Optional disk drive (primary):                | HDD or SSD  |
| Optional memory upgrade:                      | Upgrade to 64 GB  |
| Optional Warranty:                            | Extend standard manufacturer base warranty to 4 years   |
| Optional Warranty:                            | Extend standard manufacturer base warranty to 5 years   |
| Optional imaging - pre-supplied:              | Ship with customer previously supplied and approved image   |
| Optional imaging - image provided with order: | Ship with customer supplied image at the time of the order  |
| Asset tagging:                                | Tag assets before shipping  |
| Warehousing:                                  | Store assets  |
| Processor Upgrade:                            | Must meet or exceed base processor  |
| Clock Speed Upgrade:                          | Must meet or exceed base processor speed  |