	GSS Lightweight Laptop	GSS Laptop	GSS High-level Laptop
CPU: Salient processor and platform characteristics	CPU must be latest generation processor technology. Either one or both of the following benchmarks must be met or exceeded: > SYSmark 2014 score >= 1100; or > PC Mark Work V2 Accelerated score >= 3200. • Processor Security Salient Characteristics o Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot o 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) o Processor and chipset support for AES Processor Accelerated Encryption • Processor Management Salient Characteristics o Processor and chipset support for PKI secure remote power up/down/reset • a stable image hardware platform that is available for at least 12 months • Virtualization Technology for Directed I/O	CPU must be latest generation processor technology. Either one or both of the following benchmarks must be met or exceeded: > SYSmark 2014 score >= 1140; or > PC Mark Work V2 Accelerated score >= 3400. • Processor Security Salient Characteristics o Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot o 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) o Processor and chipset support for AES Processor Accelerated Encryption • Processor Management Salient Characteristics o Processor and chipset support for PKI secure remote power up/down/reset • a stable image hardware platform that is available for at least 12 months • Virtualization Technology for Directed I/O	CPU must be latest generation processor technology. Either one or both of the following benchmarks must be met or exceeded: > SYSmark 2014 score >= 1190; or > PC Mark Work V2 Accelerated score >= 3600. • Processor Security Salient Characteristics o Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot o 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) o Processor and chipset support for AES Processor Accelerated Encryption • Processor Management Salient Characteristics o Processor and chipset support for PKI secure remote power up/down/reset • a stable image hardware platform that is available for at least 12 months • Virtualization Technology for Directed I/O
O/S:	Windows 10 Pro 64 with option to ship 8.1 or 7 for free. OS with latest service pack(s)	Windows 10 Pro 64 with option to ship 8.1 or 7 for free. OS with latest service pack(s)	Windows 10 Pro 64 with option to ship 8.1 or 7 for free. OS with latest service pack(s)
RAM:	8GB (1x8GB) 2133 DDR3 or DDR4 w/ ability to upgrade to 16 GB	8GB (1x8GB) 2133 DDR3 or DDR4 w/ ability to upgrade to 16 GB	16GB (2x8GB) 2133 DDR3 or DDR4 w/ ability to upgrade to 32 GB
Hard Drive:	180GB SATA-3 or M.2 Solid State Drive	256GB SATA-3 or M.2 Solid State Drive	500GB SATA-3 or M.2 Solid State Drive
Graphics:	Integrated HD graphics with dual monitor support	Integrated HD graphics with dual monitor support	Integrated HD graphics with dual monitor support and a slot available for a discrete card
Display Size:	Max- 13 in	min - 14 inch	min - 15 inch
Display Resolution:	1366x768 Anti-glare (16:9) or better resolution	1920x1080 Anti-glare (16:9) or better resolution	1920x1080 Anti-glare (16:9) or better resolution
Sound:	Analog Stereo Output	Analog Stereo Output	Analog Stereo Output
Speakers:	Integrated Stereo (Built-in Stereo Speakers)	Integrated Stereo (Built-in Stereo Speakers)	Integrated Stereo (Built-in Stereo Speakers)
Optical Drive:	None required	None required	Integrated or external DVD RW(No Blu-Ray) DVD with all applicable hardware drivers, both 32Bit and 64Bit where available
Keyboard:	Integrated Spill Resistant keyboard Shall not be a membrane based keyboard (i.e., keys should be separate moving parts).	Integrated Spill Resistant keyboard Shall not be a membrane based keyboard (i.e., keys should be separate moving parts).	Integrated Spill Resistant keyboard Shall not be a membrane based keyboard (i.e., keys should be separate moving parts).
Webcam:	Integrated	Integrated	Integrated
Microphone:	Integrated	Integrated	Integrated
Bluetooth:	Bluetooth 4, Integrated	Bluetooth 4, Integrated	Bluetooth 4, Integrated
Smart Card Reader:	Integrated FIPS-201 Approved Smart Card Reader	Integrated FIPS-201 Approved Smart Card Reader	Integrated FIPS-201 Approved Smart Card Reader
Network Interface:	IEEE 802.3ac Gigabit Ethernet / Wireless 802.11 a/b/g/n	IEEE 802.3ac Gigabit Ethernet / Wireless 802.11 a/b/g/n	IEEE 802.3ac Gigabit Ethernet / Wireless 802.11 a/b/g/n
Ports:	2 USB (3.0 or C)	3 USB (3.0 or C)	3 USB (3.0 or C)
Expansion Slots:	Locking Cable Slot	Locking Cable Slot	Locking Cable Slot
Delivery Time:	30 Days (not including imaging and security services)	30 Days (not including imaging and security services)	30 Days (not including imaging and security services)
Weight (includes battery):	3.5 pounds or less	5 pounds or less	6.5 pounds or less
Platform Integrity:	TPM v1.2 or better FIPS 140-2. Upgradable to TPM v2 via firmware update. (TPM certification can be in progress)	TPM v1.2 or better FIPS 140-2. Upgradable to TPM v2 via firmware update. (TPM certification can be in progress)	TPM v1.2 or better FIPS 140-2. Upgradable to TPM v2 via firmware update. (TPM certification can be in progress)
EPEAT:	Gold	Gold	Gold
Energy Star:	Yes	Yes	Yes

	GSS Lightweight Laptop	GSS Laptop	GSS High-level Laptop
TAA Compliant:	Yes	Yes	Yes
508 Compliant:	Yes	Yes	Yes
Warranty:	3 Years standard OEM warranty terms;Option to extend to 4 or 5 Years;Keep Your Hard Drive	3 Years standard OEM warranty terms;Option to extend to 4 or 5 Years;Keep Your Hard Drive	3 Years standard OEM warranty terms;Option to extend to 4 or 5 Years;Keep Your Hard Drive
Optional Docking Station:	Powered Docking Station with USB , Dual connections supported via VGA, DVI/DisplayPort, and/or HDMI	Powered Docking Station with USB , Dual connections supported via VGA, DVI/DisplayPort, and/or HDMI	Powered Docking Station with USB , Dual connections supported via VGA, DVI/DisplayPort, and/or HDMI
Optional keyboard	Keyboard compatible with docking stations	Keyboard compatible with docking stations	Keyboard compatible with docking stations
Optional Software Bundle:	Office Suite (minimum of document, presentation and worksheets) and anti-virus software (3-Year License for both)	Office Suite (minimum of document, presentation and worksheets) and anti-virus software (3-Year License for both)	Office Suite (minimum of document, presentation and worksheets) and anti-virus software (3-Year License for both)
Optional Monitor:	23.6 inch viewable	23.6 inch viewable	23.6 inch viewable
Optional speakers	Stereo Speakers	Stereo Speakers	Stereo Speakers
Optional Optical drive	External DVD RW(No Blu-Ray)	External DVD RW(No Blu-Ray)	Not applicable
Optional Security-enabled features	Webcam, microphone and bluetooth not provided or disabled at BIOS; no optical drive	Webcam, microphone and bluetooth not provided or disabled at BIOS; no optical drive; network default to wired	Webcam, microphone and bluetooth not provided or disabled at BIOS; no optical drive; network default to wired
Hard Drive upgrade:	250GB SATA-3 or M.2 Solid State Drive	500GB SATA-3 or M.2 Solid State Drive	750GB SATA-3 or M.2 Solid State Drive
These services are optional to offer			
Optional imaging - pre-supplied	Ship with customer previously supplied and approved image	Ship with customer previously supplied and approved image	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	Ship with customer supplied image at the time of the order	Ship with customer supplied image at the time of the order
Alternative CPU	must meet or exceed base CPU specs	must meet or exceed base CPU specs	must meet or exceed base CPU specs
Optional Graphics Card	Not required	Discrete Graphics card	Discrete Graphics card

	GSS Desktop	**GSS Desktop Upgrade 1**	**GSS Desktop Upgrade 2**
CPU: Salient processor and platform characteristics	CPU must be latest generation processor technology. Either one or both of the following benchmarks must be met or exceeded: > SYSmark 2014 score >= 1600; or > PC Mark Work V2 Accelerated score >= 3600. • Processor Security Salient Characteristics o Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot o 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) o Processor and chipset support for AES Processor Accelerated Encryption • Processor Management Salient Characteristics o Processor and chipset support for PKI secure remote power up/down/reset • a stable image hardware platform that is available for at least 12 months • Virtualization Technology for Directed I/O	CPU must be latest generation processor technology. Either one or both of the following benchmarks must be met or exceeded: > SYSmark 2014 score >= 1900; or > PC Mark Work V2 Accelerated score >= 3800. • Processor Security Salient Characteristics o Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot o 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) o Processor and chipset support for AES Processor Accelerated Encryption • Processor Management Salient Characteristics o Processor and chipset support for PKI secure remote power up/down/reset • a stable image hardware platform that is available for at least 12 months • Virtualization Technology for Directed I/O	CPU must be latest generation processor technology. The following benchmark must be met or exceeded: > Specint_rat score >= 240 • Processor Security Salient Characteristics o Processor and chipset support for Operating System Trusted Boot & UEFI Secure Boot o 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) o Processor and chipset support for AES Processor Accelerated Encryption • Processor Management Salient Characteristics o Processor and chipset support for PKI secure remote power up/down/reset • a stable image hardware platform that is available for at least 12 months • Virtualization Technology for Directed I/O
O/S:	Windows 10 Pro 64 with option to ship 8.1 or 7 for free. OS with latest service pack(s)	Windows 10 Pro 64 with option to ship 8.1 or 7 for free. OS with latest service pack(s)	Windows 10 Pro 64 with option to ship 8.1 or 7 for free. OS with latest service pack(s)
RAM:	8GB DDR3 or DDR4-2133 RAM expandable to 16 GB	16GB DDR3 or DDR4-2133 expandable to 32 GB	32GB DDR3 or DDR4-2133 expandable to 64 GB
Hard Drive:	500GB 7200 RPM SATA or500GB SSD	500GB 7200 RPM SATA or 500GB SSD	256 GB Solid-State Drive (SSD) and a 1TB SATA
Display/Graphics:	Integrated HD Graphics w/ Dual Monitor Support	Integrated HD graphics with dual monitor support and a slot available for a discrete card	Integrated HD graphics with dual monitor support and a slot available for a discrete card
Sound:	Analog stereo output	Analog stereo output	Analog stereo output
Speakers:	Integrated headphone and stereo speaker jacks or via splitter	Integrated headphone and stereo speaker jacks or via splitter	Integrated headphone and stereo speaker jacks or via splitter
Optical Drive:	Not required	Not required	DVD RW (No Blu-Ray) DVD with all applicable hardware drivers, both 32Bit and 64Bit
Mouse:	USB or wireless optical mouse with scroll	USB or wireless optical mouse with scroll	USB or wireless optical mouse with scroll
Keyboard:	USB or wireless keyboard	USB or wireless keyboard	USB or wireless keyboard
Smart Card Reader:	FIPS-201 Approved Transparent Smart Card Reader (Keyboard Integrated or USB)	FIPS-201 Approved Transparent Smart Card Reader (Keyboard Integrated)	FIPS-201 Approved Transparent Smart Card Reader (Keyboard Integrated)
Network Interface:	Gigabit ethernet (wired or wireless)	Gigabit ethernet (wired or wireless)	Gigabit ethernet (wired or wireless)
Ports:	4 USB ports (at least 2 USB 3.0 or C), support for dual monitors	6 USB ports (at least 3 USB 3.0 or C), support for dual monitors	8 USB ports (at least 4 USB 3.0 or C), support for dual monitors
Expansion Slots:	2 PCI Slots available (PCI and/or PCIe)	2 PCI Slots available (PCI and/or PCIe)	2 PCI Slots available (PCI and/or PCIe)
Platform Integrity:	TPM v1.2 or better FIPS 140-2. Upgradable to TPM v2 via firmware update. (TPM certification can be in progress)	TPM v1.2 or better FIPS 140-2. Upgradable to TPM v2 via firmware update. (TPM certification can be in progress)	TPM v1.2 or better FIPS 140-2. Upgradable to TPM v2 via firmware update. (TPM certification can be in progress)
EPEAT:	Gold	Gold	Gold
Energy Star:	Yes	Yes	Yes
TAA Compliant:	Yes	Yes	Yes
508 Compliant:	Yes	Yes	Yes
Warranty:	3 Years standard OEM warranty terms;Option to extend to 4 or 5 Years;Keep Your Hard Drive	3 Years standard OEM warranty terms;Option to extend to 4 or 5 Years;Keep Your Hard Drive	3 Years standard OEM warranty terms;Option to extend to 4 or 5 Years;Keep Your Hard Drive
Delivery Time:	30 Days (not including imaging and security services)	30 Days (not including imaging and security services)	30 Days (not including imaging and security services)

	GSS Desktop	GSS Desktop Upgrade 1	GSS Desktop Upgrade 2
Optional Software Bundle:	Office Suite (minimum of document, presentation and worksheets) and anti-virus software (3-Year License for both)	Office Suite (minimum of document, presentation and worksheets) and anti-virus software (3-Year License for both)	Office Suite (minimum of document, presentation and worksheets) and anti-virus software (3-Year License for both)
Optional Monitor:	23.6 inch viewable	23.6 inch viewable	23.6 inch viewable
Optional speakers	Stereo Speakers	Stereo Speakers	Stereo Speakers
Optional Graphics Card upgrade	Discrete 2GB Graphics card	Discrete 2GB Graphics card	Discrete 4GB Graphics card
Optional Security-enabled features	Webcam, microphone and bluetooth not provided or disabled at BIOS; no optical drive	Webcam, microphone and bluetooth not provided or disabled at BIOS; no optical drive; network default to wired	Webcam, microphone and bluetooth not provided or disabled at BIOS; no optical drive; network default to wired
Optional Optical drive	Internal or External DVD RW(No Blu-Ray)	Internal or External DVD RW(No Blu-Ray)	(optical drive already included)
Optional disk drive (primary)	120GB SATA Self Encrypting (SED) Solid-State Drive	256GB SATA Self Encrypting (SED) Solid-State Drive	500GB SATA Self Encrypting (SED) Solid-State Drive
Optional memory upgrade	Upgrade to 16 GB	Upgrade to 32 GB	Upgrade to 64 GB
These services/products are optional to offer			
Optional imaging - pre-supplied	Ship with customer previously supplied and approved image	Ship with customer previously supplied and approved image	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	Ship with customer supplied image at the time of the order	Ship with customer supplied image at the time of the order
Alternative CPU	must meet or exceed base CPU specs	must meet or exceed base CPU specs	must meet or exceed base CPU specs