

Windows OS Laptop - Tablet		
Laptop(Tablet) - Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	OEM & Model/Part Number:	
Parameter	Attribute	Value
Processor	<i>Minimum Speed (Ghz)</i>	2.5 Ghz
	<i>TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant</i>	YES
Memory	<i>Minimum Speed (Mhz)</i>	1333 Mhz
	<i>Minimum (GB)</i>	4
Display / Graphics	<i>Screen Size, Minimum (inches)</i>	12.1
	<i>Minimum Resolution (pixels, h x v)</i>	1366X768
	<i>Acceptable aspect ratios</i>	16:9 or 16:10
	<i>Integrated graphics acceptable</i>	YES
	<i>Dedicated video memory required</i>	NO
	<i>Shared video memory accepted</i>	YES
	<i>Graphics memory, mimimum</i>	512 MB
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
Speaker	<i>Internal</i>	YES
Networking	<i>Wireless</i>	802.11g/n
	<i>NIC speed, minimum (gbps)</i>	1 GB
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
USB 2.0	<i>number of ports, minimum</i>	3
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum (GB)</i>	250 GB
	<i>RPM, minimum</i>	4200
Optical Device	<i>Interface for external CD/DVD</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	6 cell count and required to support a minimum run time, on battery, of 5 hours
	<i>eStar rated</i>	YES
Security	<i>Smart card reader (Internal)</i>	YES
Operating Systems Supported	<i>Windows 7, Enterprise Ed.</i>	YES
	<i>MS Certified for Win 7 (32 and 64 bit)</i>	YES
Docking Station	<i>Interface for port replicator</i>	YES
Other	<i>Trade Agreements Act of 1979 (TAA) compliant</i>	YES

Windows OS Laptop - Light		
Laptop(Light) - Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	OEM & Model/Part Number:	
Parameter	Attribute	Value
Processor	<i>Minimum Speed (Ghz)</i>	2.5Ghz
	<i>TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant</i>	YES
	<i>Minimum Number of Cores</i>	2
Memory	<i>Minimum Speed (Mhz)</i>	1333 Minimum
	<i>Minimum (GB)</i>	4
Display / Graphics	<i>Screen Size, Minimum (inches)</i>	12.1
	<i>Minimum Resolution (pixels, h x v)</i>	1366X768 (or greater)
	<i>Acceptable aspect ratios</i>	16:9 or 16:10
	<i>Integrated graphics acceptable</i>	YES
	<i>Dedicated video memory required</i>	NO
	<i>Shared video memory accepted</i>	YES
	<i>Graphics memory, minimum</i>	512 MB
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
Speaker	<i>Internal</i>	YES
Networking	<i>Wireless</i>	802.11g/n
	<i>NIC speed, minimum (gbps)</i>	1 GB
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
USB 2.0	<i>number of ports, minimum</i>	3
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum</i>	250 GB
	<i>RPM, minimum</i>	7200
Integrated Camera, 720p HD resolution	<i>Present</i>	YES
Optical Device	<i>Interface for external CD/DVD</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	cell count required to support a minimum run time, on battery, of 5 hours
	<i>eStar rated</i>	YES
Security	<i>Smart card reader (Internal)</i>	YES
Operating Systems Supported	<i>Windows 7, Enterprise Ed.</i>	YES
	<i>MS Certified for Win 7 (32 and 64 bit)</i>	YES
Docking Station	<i>Interface for port replicator</i>	YES
Other	<i>Trade Agreements Act of 1979 (TAA) compliant</i>	YES

Windows OS Laptop - Medium		
Laptop(Medium) - Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	OEM & Model/Part Number:	
Parameter	Attribute	Value
Processor	<i>Minimum Speed (Ghz)</i>	2.5 Ghz
	<i>TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant</i>	YES
	<i>Minimum Number of Cores</i>	2
Memory	<i>Minimum Speed (Mhz)</i>	1333 Minimum
	<i>Minimum (GB)</i>	4
Display / Graphics	<i>Screen Size, Minimum (inches)</i>	14
	<i>Minimum Resolution (pixels, h x v)</i>	1366X768
	<i>Acceptable aspect ratios</i>	16:9 or 16:10
	<i>Integrated graphics acceptable</i>	YES
	<i>Dedicated video memory required</i>	NO
	<i>Shared video memory accepted</i>	YES
	<i>Graphics memory, mimimum</i>	512 MB
	<i>Dual-head/link support</i>	YES
Networking	<i>Wireless</i>	802.11g/n
	<i>NIC speed, minimum (gbps)</i>	1 GB
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
Monitor	<i>Privacy Filter</i>	YES
	<i>Screen Size, Minimum (inches)</i>	19"
	<i>Minimum Resolution (pixels, h x v)</i>	1366X768
Speaker	<i>Internal</i>	YES
Keyboard	<i>Smart keyboard</i>	YES
	<i>USB connected</i>	YES
Integrated Features	<i>Hot buttons/hot key sequence to permit enabling/disabling of wireless networks, speaker, external monitor</i>	YES
	<i>Hot button/hot key sequence to permit enabling/disabling of touchpad</i>	YES
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
Keyboard Illumination	<i>Backlit or other <u>integrated</u> keyboard lighting system</i>	YES
USB 2.0	<i>number of ports, minimum</i>	3
Integrated Camera, 720p HD resolution	<i>Present</i>	YES
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum (GB)</i>	250
	<i>RPM, minimum</i>	7200
Optical Device	<i>8X DVD +/- RW</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	cell count required to support a minimum run time, on battery, of 5 hours
	<i>eStar rated</i>	YES
Security	<i>Smart card reader (Internal)</i>	YES
Operating Systems Supported	<i>Windows 7, Enterprise Ed.</i>	YES
	<i>MS Certified for Win 7 (32 and 64 bit)</i>	YES
Docking Station	<i>Interface for port replicator</i>	YES
Other	<i>Trade Agreements Act of 1979 (TAA) compliant</i>	YES
	<i>* VA requires 2 video outputs, either one of each or one VGA and multiple on the Digital on the larger docks is acceptable.</i>	YES

Windows OS Laptop - Heavy		
Laptop(Heavy) - Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	OEM & Model/Part Number:	
Parameter	Attribute	Value
Processor	<i>Minimum Speed (Ghz)</i>	2.5
	<i>TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant</i>	YES
	<i>Number of Cores</i>	QUAD
Memory	<i>Minimum Speed (Mhz)</i>	1333
	<i>Minimum (GB)</i>	4
Display / Graphics	<i>Screen Size, Minimum (inches)</i>	17
	<i>Minimum Resolution (pixels, h x v)</i>	1920x1080
	<i>Acceptable aspect ratios</i>	16:9 or 16:10
	<i>Graphics memory, minimum</i>	512 MB
	<i>Dedicated video memory required</i>	YES
	<i>Shared video memory accepted</i>	NO
	<i>Dual-head support</i>	YES
Speaker	<i>Internal</i>	YES
Integrated Features	<i>Hot buttons/hot key sequence to permit enabling/disabling of wireless networks, speaker, external monitor</i>	YES
	<i>Hot button/hot key sequence to permit enabling/disabling of touchpad</i>	YES
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
Networking	<i>Wireless</i>	802.11g/n
	<i>NIC speed, minimum (gbps)</i>	1
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
USB 2.0	<i>number of ports, minimum</i>	4
Integrated Camera, 720p HD resolution	<i>present</i>	YES
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum (GB)</i>	250
	<i>RPM, minimum</i>	7200
Optical Device	<i>8X DVD +/- RW</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	cell count required to support a minimum run time, on battery, of 5 hours
	<i>eStar rated</i>	YES
Security	<i>Smart card reader (Internal)</i>	YES
Operating Systems Supported	<i>Windows 7, Enterprise Ed.</i>	YES
	<i>MS Certified for Win 7 (32 and 64 bit)</i>	YES
Docking Station	<i>Interface for port replicator</i>	YES
Other	<i>Trade Agreements Act of 1979 (TAA) compliant</i>	YES

Windows OS Laptop - Semi-Rugged		
Laptop (Semi-Rugged) - Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	OEM & Model/Part Number:	
Parameter	Attribute	Value
Processor	<i>Minimum Speed (Ghz)</i>	2.5 Ghz
	<i>TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant</i>	YES
	<i>Minimum Number of Cores</i>	2
Memory	<i>Minimum Speed (Mhz)</i>	1066
	<i>Minimum (GB)</i>	4
	<i>Screen Size, Minimum (inches)</i>	14
Display / Graphics	<i>Minimum Resolution (pixels, h x v)</i>	1366X768
	<i>Acceptable aspect ratios</i>	16:9 or 16:10
	<i>Integrated graphics card</i>	YES
	<i>Graphics memory, minimum</i>	512 MB
	<i>Dedicated video memory required</i>	NO
	<i>Shared video memory accepted</i>	YES
Networking	<i>Wireless</i>	802.11g/n
	<i>NIC speed, minimum (gbps)</i>	1 GB
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
	<i>Concealed mode</i>	YES
Keyboard and Input	<i>LED Backlighting</i>	YES
	<i>Touchscreen LCD</i>	YES
	<i>Standard Sealed</i>	YES
	<i>protective keyboard membrane</i>	YES
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
USB 2.0	<i>number of ports, minimum</i>	4
Speaker	<i>Internal</i>	YES
Integrated Camera, 720p HD resolution	<i>Present</i>	YES
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum (GB)</i>	250
	<i>RPM, minimum</i>	5400
Optical Device	<i>Internal CD/DVD</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	cell count required to support a minimum run time, on battery, of 5 hours
	<i>eStar rated</i>	YES
Security	<i>Smart card reader (Internal)</i>	YES
	<i>Kensington Cable Lock slot</i>	YES
Operating Systems Supported	<i>Windows 7, Enterprise Ed.</i>	YES
	<i>MS Certified for Win 7 (32 and 64 bit)</i>	YES
Durability Features	<i>* Modified drop resistant (from heights of 29 inches) * High-altitude pressure resistant * Vibration resistant * Splash resistant * Dust resistant * Operational temperature of -20 deg to 140 deg Fahrenheit</i>	YES
	<i>Reinforced locking port covers</i>	YES
Integrated Options	<i>Backlit or integrated keyboard lighting system</i>	YES
	<i>HDD and battery Lock</i>	YES
Docking Station	<i>Interface for Port Replicator</i>	YES
Other	<i>Trade Agreements Act of 1979 (TAA) compliant</i>	YES

Mac OS Laptop - Medium		
	Model/Part Number of machines that meet minimum requirements:	
Technical Specification		Minimum Requirements
General Requirement		
Parameter	Attribute	Medium (2.2GHz 15")
Processor	<i>Minimum Speed (Ghz)</i>	2.2
	<i>Number of Cores</i>	DUAL
Memory	<i>Minimum Speed (Ghz)</i>	800
	<i>Minimum (GB)</i>	4
Display / Graphics	<i>Screen Size, Minimum (inches)</i>	14"-15" range
	<i>Minimum Resolution (pixels, h x v)</i>	1440X900
	<i>Integrated graphics card</i>	YES
	<i>Integrated graphics card Memory, minimum</i>	384
	<i>Discrete graphics card</i>	YES
	<i>Discrete graphics card Memore, minimum</i>	1 GB
	<i>Wireless</i>	A+B+G+N
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
Networking	<i>NIC speed, minimum (gbps)</i>	1
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
BACKLIT KEYBOARD	<i>Backlit</i>	YES
WIRED KEYBOARD	<i>Integrated or wired - no wireless</i>	YES - integrated
USB 2.0	<i>number of ports, minimum</i>	2
Integrated Camera, 2.0MP	<i>Present</i>	YES
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum (GB)</i>	320
	<i>RPM, minimum</i>	5400
Optical Device	<i>8X DVD +/- RW</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	Cell count required to support a minimum run time, on battery, of 5 hours
	<i>eStar rated</i>	YES
Operating Systems Supported	<i>OS X 10.6 Snow Leopard</i>	YES
	<i>OS X 10.7 Lion</i>	Lion Ready

Mac OS Laptop - Heavy		
	Model/Part Number of machines that meet minimum requirements:	
Technical Specification		Minimum Requirements
General Requirement		Laptop
Parameter	Attribute	Heavy (17")
Processor	<i>Minimum Speed (Ghz)</i>	2.2
	<i>Number of Cores</i>	QUAD
Memory	<i>Minimum Speed (Ghz)</i>	800
	<i>Minimum (GB)</i>	4
Display / Graphics	<i>Screen Size, Minimum (inches)</i>	17
	<i>Minimum Resolution (pixels, h x v)</i>	1920x1200
	<i>Integrated graphics card</i>	YES
	<i>Integrated graphics card Memory, minimum</i>	384
	<i>Discrete graphics card</i>	YES
	<i>Discrete graphics card Memore, minimum</i>	1
	<i>Wireless</i>	A+B+G+N
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
Networking	<i>NIC speed, minimum (gbps)</i>	1
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
BACKLIT KEYBOARD	<i>Backlit</i>	YES
WIRED KEYBOARD	<i>Integrated or wired - no wireless</i>	YES - integrated
USB 2.0	<i>number of ports, minimum</i>	2
Integrated Camera, 2.0MP	<i>Present</i>	YES
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum (GB)</i>	500
	<i>RPM, minimum</i>	5400
Optical Device	<i>8X DVD +/- RW</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	Cell count required to support a minimum run time, on battery, of 5 hours
	<i>eStar rated</i>	YES
Operating Systems Supported	<i>OS X 10.6 Snow Leopard</i>	YES
	<i>OS X 10.7 Lion</i>	Lion Ready

Mac OS Desktop		
Model/Part Number of machines that meet minimum requirements:		
Technical Specification		Minimum Requirements
General Requirement	Attribute	Desktop
Parameter	Attribute	All- in- One
Processor	<i>Minimum Speed (Ghz)</i>	2.5
	<i>Number of Cores</i>	QUAD
Memory	<i>Minimum Speed (Ghz)</i>	1333
	<i>Minimum (GB)</i>	4
Display / Graphics	<i>Screen Size, Minimum (inches)</i>	21
	<i>Minimum Resolution (pixels, h x v)</i>	1920x1080
	<i>Integrated graphics card</i>	
	<i>Integrated graphics card Memory, minimum</i>	
	<i>Discrete graphics card</i>	YES
	<i>Discrete graphics card Memore, minimum</i>	512
	<i>Wireless</i>	A+B+G+N
Mouse	<i>Multi-touch touchpad/pointer stick</i>	Required
Networking	<i>NIC speed, minimum (gbps)</i>	1
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	YES
BACKLIT KEYBOARD	<i>Backlit</i>	NO
WIRED KEYBOARD	<i>Integrated or wired - no wireless</i>	YES - must be specified.
USB 2.0	<i>number of ports, minimum</i>	4
Integrated Camera, 2.0MP	<i>Present</i>	YES
Primary Hard Drive	<i>Interface</i>	SATA
	<i>Capacity, minimum (GB)</i>	500
	<i>RPM, minimum</i>	7200
Optical Device	<i>8X DVD +/- RW</i>	YES
Battery/AC Adapter	<i>Cells, minimum</i>	NA
	<i>eStar rated</i>	YES
Operating Systems Supported	<i>OS X 10.6 Snow Leopard</i>	YES
	<i>OS X 10.7 Lion</i>	Lion Ready

Windows OS Thin Client		
Thin Client - Technical Specification		
General Requirement - Model Proposed (Please include manufacturer's part number)	Minimum Requirements	
	OEM and Model/Part Number:	
Parameter	Attribute	Value
Processor	<i>Minimum Speed (Ghz)</i>	1Ghz
Memory	<i>DDR (Minimum)</i>	2GB
	<i>Flash (Minimum)</i>	2GB
Display / Graphics	<i>Display (Dual Display Support)</i>	1 VGA/1 DVI
	<i>Resolution Support minimum</i>	1680x1050
Mouse	<i>USB</i>	Y
Keyboard	<i>USB</i>	Y
Networking	<i>Wireless (Optional)</i>	802.11 g/n
	<i>Ethernet - 10/100/1000 Gigabit</i>	Y
	<i>Support for FIPS 140-2 and FIPS 802.11</i>	Y
Media Drive	<i>CD/DVD</i>	N
USB 2.0	<i>Number of ports, minimum</i>	6
Power In	<i>eStar rated</i>	Y
Security	<i>Smart card reader (Internal/external)</i>	Y
	<i>(if external card reader it cannot take one of the required USD ports)</i>	
Height	<i>Minimum</i>	7"
Width	<i>Minimum</i>	1"
Depth	<i>Minimum</i>	8"
Operating Systems Supported (Thin Clients)	<i>Windows Embedded Standard 7</i>	
Virtualization Platforms Supported (Zero Clients)	<i>Citrix/Vmware/Microsoft</i>	

Attachment B - End User Device Specifications

Monitors - Small		
Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	Model/Part Number:	
Parameter	Attribute	Value
Display	Minimum Viewable Size	18.5"
Display	Type	Widescreen
Display	Resolution (Minimum)	1366x768
Display	Display Position Adjustments	Tilt
Display	Minimum Response Time	5ms
Display	Aspect Ratio	16x9
Interface	VGA Input	Yes
Interface	DVI-D Input	Yes
Environmental	Energy Star Qualified	Yes

Attachment B - End User Device Specifications

Monitors - Large		
Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	Model/Part Number:	
Parameter	Attribute	Value
Display	Minimum Viewable Size	21.5"
Display	Type	Widescreen
Display	Resolution (Minimum)	1920x1080
Display	Display Position Adjustments	Tilt
Display	Minimum Response Time	5ms
Display	Aspect Ratio	16x9
Interface	VGA Input	Yes
Interface	DVI-D Input	Yes
Environmental	Energy Star Qualified	Yes

Attachment B - End User Device Specifications

Docking Station		
Technical Specification	Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)	Model/Part Number:	
Parameter	Attribute	Value
Docking Station	<i>Interface for port replicator</i>	YES
	<i>Hot docking capability</i>	YES
	<i>Integrated support for two (2) dual external monitors</i>	YES
	<i>DVI / 2*</i>	YES
	<i>USB ports</i>	5
	<i>Locking device to secure laptop to dock/replicator required</i>	YES
	<i>Locking device to secure docking station/replicator to a fixed object (desk)</i>	YES
	<i>NIC port</i>	YES
	<i>Printer/Com Port</i>	YES
	<i>Integrated 10/100 Ethernet LAN with RJ45 connector</i>	YES
	<i>HDMI or DisplayPort /2*</i>	YES