

IMT Standards IMT Standards Oversight Committee Government of Alberta	Effective Date: 2016-10-05 Scheduled Review: 2019-10-12 Last Reviewed: 2018-10-12
	Type: Technical
Standard number - A000070	
Workstation – Power	
Category: Hardware Keywords: Power, Workstation, Desktop	

Description of Standard

The standards below are for the selection of Power Workstation. This preferred configuration is meant for GoA users requiring a powerful machine due to resource intensive applications (i.e. GIS and AutoCAD).

Standard Specification

The Power Workstation must be certified through the Windows Logo Program and parts must be available for minimum five years after end of product life and be stocked in Canada.

The Power Workstation must meet the minimum specifications listed below;

Operating System	<ul style="list-style-type: none"> • Windows 10 • Windows 7
Form Factor	<ul style="list-style-type: none"> • Tower
CPU, Memory and Storage	<ul style="list-style-type: none"> • Multi-Core (CPU), Intel Xeon E5 Processor 2600 series • Memory - 32 GB DDR4-2133 MHz minimum • Hard disk <ul style="list-style-type: none"> ○ 512GB SATA 6Gb/s SSD • Internal DVD+/-RW drive
Interface	<ul style="list-style-type: none"> • Minimum of 3 Universal Serial Bus (USB) ports, with USB version 3.0 • Minimum of 1 Universal Serial Bus (USB) port, with USB version 2.0
Graphics and Sound	<ul style="list-style-type: none"> • PCI Express video card with: <ul style="list-style-type: none"> ○ Supports resolution of 2560x1600 or greater ○ DirectX 11 and up support ○ PCI Express 2.0 support ○ Dual Digital Monitor Support ○ OpenGL 3.2 support

	<ul style="list-style-type: none"> ○ 2048 MB dedicated video memory ○ Graphics Processing Unit with 630 MHz core clock speed or greater. ● Integrated sound card
Keyboard and Mouse	<ul style="list-style-type: none"> ● USB Keyboard and USB Optical Mouse
Power Supply	<ul style="list-style-type: none"> ● 850W Power supply <p>Note: May required greater wattage for CPU selected or for multiple CPU's</p>
Communications	<ul style="list-style-type: none"> ● 10/100/1000 auto-sensing Ethernet network card with Wake-On-LAN (WOL) capability

Standard Options

The Power Workstation may support the following standard options;

Memory and Storage	<ul style="list-style-type: none"> ● Additional DDR4 memory to upgrade to a maximum of 1TB ● Up to 5x 3.5" SATA 7200rpm or SAS 10K drives ● Up to 8x 2.5" SATA 7200rpm or SAS 10k drives with High Density
CPU	<ul style="list-style-type: none"> ● Additional Multi-Core (CPU), Intel Xeon E5 Processor 2600 series (must match exactly the first installed CPU) <p>Note: May required greater wattage for CPU selected or for multiple CPU's</p>
Power Supply	<ul style="list-style-type: none"> ● Up to 1125W power supply to meet the CPU configuration.
Graphics and Sound	<ul style="list-style-type: none"> ● Up to 24GB High End 3d Graphic card: <ul style="list-style-type: none"> ○ Cuda Cores 3072 ○ GPU Memory 24GB GDDR5 ○ System Interface PCI Express 3.0x16 ○ 250W Power Consumption ○ Display Connectors DP 1.2 (4) + DVI-D DL (1) + Stereo ○ Display Port 1.2 ○ 4 Display Supported ○ Graphic API OpenGL 4.5, DirectX 12

Where to Apply This Standard

This applies to all Government of Alberta Ministries.

Authority and Exceptions

Internal Use Only

Supporting Documentation

Not applicable.

Owner

Service Alberta, Office of the Corporate CIO, Enterprise Operations and Infrastructure, Technical Solutions Architect Team

Contact

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Additional Information

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