

Latest Rev June 2019  
THE NAVAJO NATION  
DEPARTMENT OF INFORMATION TECHNOLOGY

“Our goal is to purchase a computer system that will not be obsolete or outdated equipment for at least 3-years. It must be covered by 3-years of warranty” And should provide a consistent user experience and have a standard of management capabilities.

**DESKTOP PC MINIMUM RECOMMENDED COMPUTER SPECIFICATIONS FOR STANDARD OFFICE USER**

- **BRAND:**  
HP, DELL, Lenovo, etc., (the well-known names in the industry). **Do not purchase consumer (home, media, student) class notebooks.** Always purchase business class products for the longer life cycles, quality, support and manageability.
- **INTEL PROCESSOR:**
  - i5, i7 or i9 (Intel 7<sup>th</sup>, 8<sup>th</sup> or 9<sup>th</sup> generation processors)
- **OPERATING SYSTEM:**
  - Microsoft Windows 10 Professional (As of June 2020, Microsoft ends supporting Windows 7)
- **APPLICATION SOFTWARE:**
  - Microsoft Office Professional 2019 (latest Full Version software). Either purchased via Microsoft ESD (Electronic Software Distribution) or Microsoft VLSC (Volume License Center for larger quantities)
- **ANTIVIRUS/SPYWARE/ADWARE/FIREWALL:**
  - Emsisoft Business Security (3-Year License)
- **Form Factor:**
  - Any form factor (chassis size) can be selected based on physical desk space requirements. Choices can be a Mini Tower, Small Form Factor, Ultra Slim Desktop, or All-in-One (CPU and Monitor are enclosed in one box).  
*Tip: Mini Tower and SFF will provide most expansion for non-standard requirements (ie PCIe cards).*
- **System board:**  
Required features:
  - TPM 1.2 -> 2.0 (This does Not matter and will confuse)
- **MEMORY:**
  - DDR4 Memory. 8GB is Recommended. 16GB or 32GB for High End GIS or Adobe Premier Users
- **HARD DRIVE:**
  - Recommend standardizing on SSD (Solid State Drive with no moving parts) as opposed to SATA 7200RPM Spinning HDD – it is the best value upgrade out of all components today
    - Size ranges are 256GB, 512GB, 1TB, or 2TB
- **DVD BURNER DRIVE:**
  - 8x speed. Choice between DVD Reader, DVD-Burner, Blue Ray Reader or Blue Ray Burner. Most new computers do not include these, so an External USB DVD Burner may need to be purchased separately.
- **VIDEO CARD:**
  - Integrated video is sufficient. NVIDIA Quadro video cards recommended for GIS users
- **WIRED OR WIRELESS NETWORK CARD:**
  - 10/100/1000 Network Card built onboard is normal
  - Most Laptops and All-In-One Desktops come standard with Wireless cards. Normal Desktops would need to purchase a wireless card separately if required. Plugging in a hardwire cable is faster and more secure, so wireless is optional
- **SOUND CARD:**
  - Integrated Sound Card is acceptable
- **MOUSE and KEYBOARD:**
  - Standard mouse and keyboard. Optional wireless or Bluetooth keyboard if requested.

- **MONITOR:**
  - VGA and DVI are legacy ports, with DVI options relatively removed from the market
  - Standard ports would now be DisplayPort and HDMI
- **SPEAKERS:**
  - Internal desktop speaker should be sufficient for laptop and desktop all-in-one. Normal desktop will require to purchase speaker separately.
- **UPS:**
  - UPS (Uninterruptible Power Supply) is a battery that will allow your computer to remain powered on during

Brown-outs, black-outs and power surges. A UPS will also protect your computer during thunder storms.

Major brands include: Tripp Lite, APC

Minimum: 500VA Universal Power Supply UPS with at least 6-oulets

Recommended: 685VA Universal Power Supply UPS with at least 6-oulets and AVR

- **WARRANTY:**  
3-Year Parts and Labor Onsite. Recommend ADP (Accidental Damage Protection) for Laptops.