



WORKSTATION HARDWARE

Better Technology. Better Building.

Guidance for MiTek Customers and their IT Staff

Version 8.4.0

Purchasing New Hardware for the MiTek® SAPHIRE® Suite

These are recommended hardware specifications to effectively utilize the applications with reasonable performance expectations. **Maintaining current Windows Updates is necessary to ensure support.**

New Workstation - Recommendations	
CPU	2.6GHz Core i7/i9 (g7+) or Xeon (v5+)
RAM	16GB 32GB (Multifamily / Commercial)
HDD	500GB 7200 RPM or SSD Minimum 100GB Free
Video	2GB GDDR5 1600 x 900 or Higher Resolution

Supported Environments for MiTek® SAPHIRE® version 8.4.0				
64-bit:	Workstation OS	Server OS	SQL Server	Prerequisites
Editions	Professional	Standard or Higher	Standard (Express†)	.NET 4.8
	Enterprise	Essentials (< 10 Users)	2019	VC Redist (x64): 2008
Versions	Windows 10*	2019	2017	VC Redist (x64 & x86): 2010, 2012, 2013, & 2017
	Windows 8.1	2016*	2016	Visual Fox Pro OLE DB
		2012 R2	2014	SQL 2012 (x64): MO & CLR
		2012	2012	

*(non-beta) Windows 10 Pro: v1803+, Enterprise: v1703+ Server 2016: v1607

† SQL Express has performance limits, and a maximum database size of 10GB. Most SAPHIRE® Management deployments require Standard.

Performance Considerations

Hard Drive Speed

Minimum 7200 RPM drives, although Solid State Hard Drives (SSD) are highly recommended for best performance.

Video Card

Discreet video card; 1GB RAM per monitor is highly recommended for users designing large multifamily or commercial structures.

Local Area Network

For best performance, a wired Gigabit (10/100/1000) network is recommended, with all devices running at the same speed.

Recommendations for Highest Performance

- CPU with Base Frequency > 3.0 GHz
- SSD with > 500MB/s Read & Write Speeds
- Professional Workstation Graphics Card (i.e. NVidia Quadro)
- Additional RAM recommended if multitasking (i.e. running AutoCAD, or viewing large PDF documents simultaneously.)

Existing Workstation - Requirements	
CPU	2.6GHz 6th Gen+ Core i7 or Xeon v3+
RAM	8GB
HDD	256GB 7200 RPM Minimum 100GB Free
Video	1GB DDR3

Unsupported Operating Systems

Beginning with version 8.0, 32-bit versions are no longer supported. Also, the following operating systems are specifically not supported:

- All versions of Windows 7
- Windows 8 RT, Windows 8 Home
- Any version of Windows 10 not designated as "Professional" or "Enterprise" (i.e. Home, RT)