

SigmaNEST Requirements

This document describes a configuration that SigmaTEK considers to be reasonable for an independent system, for a work station attached to a server and for a server.

SigmaTEK makes no warranties regarding the suitability of the systems described in this document to a particular site's requirements. Each site must assess their own individual needs and make their own decisions. Some sites may have greater mass storage requirements; others may prefer larger video screen sizes. The system configurations described here describe typical, recommended systems for new purchases that may be expected to be suitable for a few years. Many older and less capable systems, may also prove to be satisfactory now, but may need earlier replacement.

Independent System

The following configuration is considered reasonable for a single user installation or for several networked workstations that are not attached to a server:

CPU type	Intel Core range with 2 or more cores AMD Athlon X2 or Phenom range
Memory (RAM)	4 GB
Hard disk capacity	250 GB
Hard disk type	2 or more SATA drives configured as Raid 0 or Raid 5 (min. 3 drives)
DVD reader or writer	
Optical mouse, trackball, etc.	
Screen resolution	1024 x 768 (absolute minimum to display all dialogs)
Video memory	128 MB
Operating system	64-bit Windows Vista Business, Corporate or Ultimate edition 64-bit Windows 7 Professional or higher
File system	NTFS
Network	100 Mb/s network card access to other machines and shared Internet connection

Work Station System

The following configuration is considered reasonable for a work station that is attached to a server where the server houses the SigmaNEST database and configuration information:

CPU type	Intel Core range with 2 or more cores AMD Athlon X2 or Phenom range
Memory (RAM)	2 GB
Hard disk capacity	80 GB
Hard disk type	SATA
DVD reader or writer	
Optical mouse, trackball, etc.	
Screen resolution	1024 x 768 (absolute minimum to display all dialogs)
Video memory	128 MB
Operating system	Windows Vista Business, Corporate or Ultimate edition Windows 7 Professional or higher
File system	NTFS
Network card	100 Mb/s for access to server and shared Internet connection

Server System

The following configuration is considered reasonable for a server to house the SigmaNEST database and configuration information while serving about 5 to 10 attached SigmaNEST work stations plus light additional loads, such as file sharing, print serving and backup functions.

CPU type	1 or 2 Intel Xeon 5000 series with 2 or more cores or 1 AMD Opteron 1000 series or 2 AMD Opteron 2000 series
Memory (RAM)	4 GB
Hard disk size	500 GB
Hard disk type	3 or more SATA drives configured as Raid 5
DVD reader or writer	
Operating system	64-bit Windows 2003 Server standard edition or higher 64-bit Windows 2008 Server standard edition or higher
File system	NTFS
Network card	1 GB/s with access to a shared Internet connection

Note: If an existing Microsoft SQL Server database server is used for the SigmaNEST database, it must be SQL Server 2005 or later.