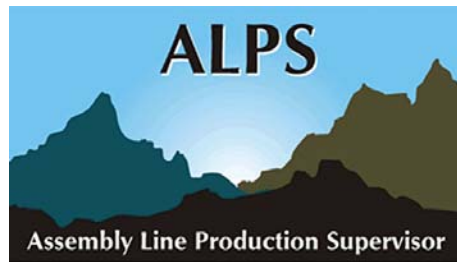


# COMPUTER REQUIREMENTS



## HARDWARE

- ❑ Pentium processor, 1GHz or better.
- ❑ Memory size recommended minimum 256MB. For ALPS systems with more than about five computers, 512MB is recommended for the ALPS Server.
- ❑ Graphics minimum 800x600x32k colors; recommended at least 1024x768, High Color (16bit). The ALPS screens have been designed for normal use at a 1024x768 resolution, and a minimum reasonable result at 800x600.

Higher resolutions are in particular useful to view details of wafer maps with large numbers of dies.

- ❑ Minimum 2GB free space on the hard disk (mainly used for the ALPS database). More hard disk space is required for high-volume production sites, especially if old data is not regularly removed from the database.
- ❑ CD-ROM drive, diskette drive recommended (not required) on the ALPS Server, keyboard, mouse or other pointing device.
- ❑ One parallel (LPT) port or a USB port on the ALPS Server, to connect the ALPS dongle and possibly a printer.
- ❑ Free COM ports to connect production equipment (e.g. die bonders) through SECS-I (RS232C) connections and possibly a bar code printer. The standard hardware solution, tested by KINESYS Software, to extend the number of COM ports, is the DIGI Classic Board 8.

Obviously, no COM ports are required to connect production equipment using HSMS (Ethernet) connections.

- ❑ Local Area Network card.

**Note:** the network card is also required for a single-computer ALPS system without any network connections.

## SOFTWARE

ALPS runs on various Windows versions:

- ❑ Windows XP Professional or Home version, Service Pack 1a
- ❑ Windows 2000 Professional, Service Pack 2 or higher
- ❑ Windows NT Workstation, Service Pack 6

If your total ALPS system includes more than about five computers, each running one or more equipment connections, you should use one of the following systems for the ALPS Server computer:

- ❑ Windows 2000 Server
- ❑ Windows Server 2003

Also when you decide to use a SQL Server version other than the MSDE system that is provided with ALPS, you will have to use a Windows Server system for the ALPS Server.

When using a Windows Server system you should also make sure that you acquire sufficient Client Access Licenses (CALs) for your Windows Server.

**Note:** Whichever Windows system you use, it should be an English language system. Moreover the "local options" should have been configured to English (US). ALPS does not work reliably on other language versions. Using such other Windows versions is not supported.

Furthermore:

- ❑ Internet Explorer 6.0, SP1 or higher
- ❑ It is strongly recommended to install good working and up-to-date virus checking and firewall systems.
- ❑ It is further recommended (not required) to install "remote desktop" software, like PCAnywhere from Symantec, and to offer the possibility to set up a dial-up connection over an outside telephone line to a computer at KINESYS' offices. In case problems would arise, such a facility will offer a great help to KINESYS to analyze the problem directly on your computer(s) and to realize a quick solution.