

Supervisor Smart 4-port User Guide



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Introduction

Minicom Advanced Systems Ltd (Minicom) is a leading manufacturer of KVM switches for multiple server control. Minicom also manufactures interactive systems for Computer Equipped Learning Environments. It is also the world leader in the development and deployment of cutting edge CAT5 technology.

The Supervisor Smart 4-Port

The Supervisor Smart 4-Port (Smart 4) from Minicom is a Keyboard Video Mouse (KVM) switch. With the Smart 4 you can access, monitor and control four computers from one KVM console.

To use the Supervisor Smart 4-Port unit, you need 1 high resolution CPU cable for each connected computer.

The following accessories are available and must be ordered separately:

- Rack mounting set P/N 5AC20201
- Desk mounting set P/N 5AC20200
- Power supply P/N 5PS20025

Features of the Smart 4

- Pure hardware Plug and Play
- Ideal solution for small and home office (SOHO) environments
- Scan function
- High video resolution
- Can be operated from the Smart 4's front panel or a keyboard hotkey
- Eliminates excess equipment
- Full keyboard and mouse emulation for connected computers
- Microsoft Intellimouse and Wheel mouse support
- The connected computers can have different operating systems
- Separate Desk and Rack mounting kits
- Optional power supply for cascading, otherwise no external power supply is necessary!

Figure 1 illustrates the basic configuration of the Smart 4 System.

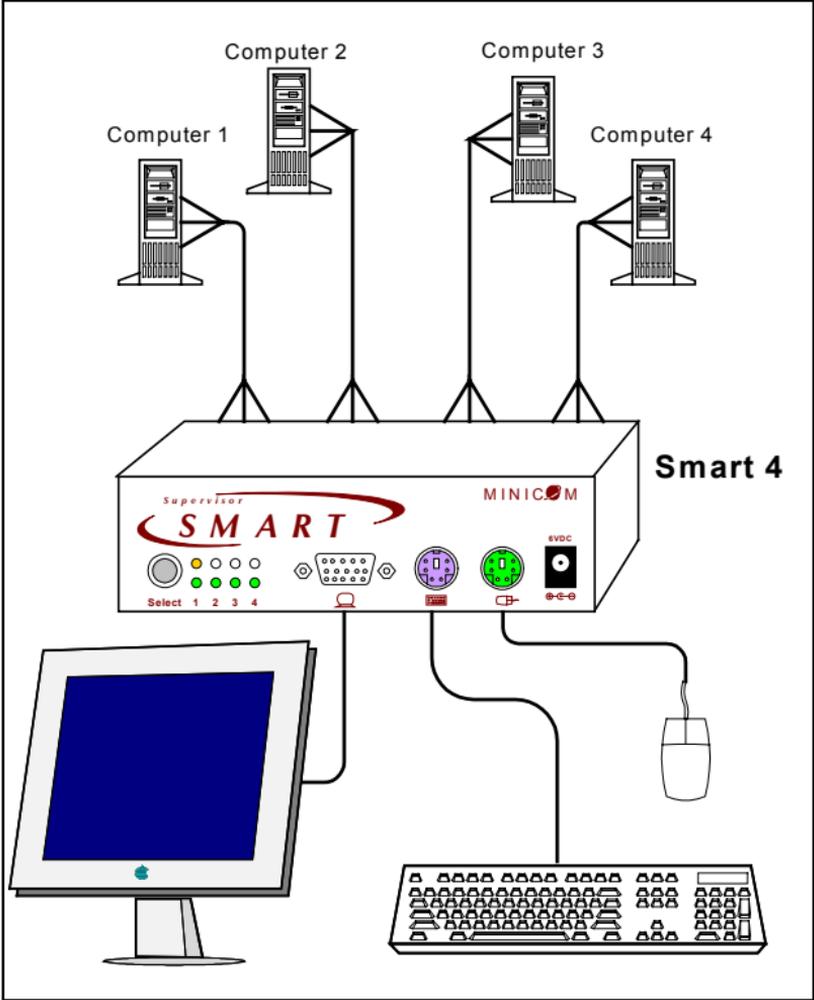


Figure 1 The Smart 4 configuration

Installing the Smart 4 system

Before installing the system do the following:

- Switch off all computers.
- Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

Connecting cables to the Smart 4 front panel

Connect a keyboard, screen and mouse to the front panel using their existing cables.

An optional Power adapter when used is also connected to the front panel.

Figure 2 illustrates the front panel connections. The panel contains 2 LED banks. The top LED bank shows which computers are connected and powered on. The bottom LED bank shows which computer is currently selected.

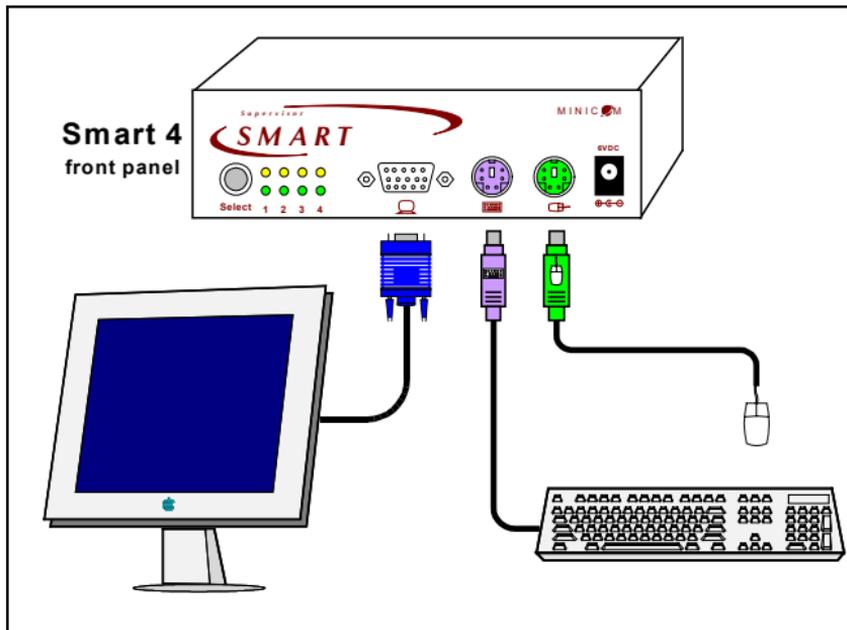


Figure 2 The Smart 4 front panel connections

Connecting cables to the Smart 4 rear panel

Important! Always connect the front panel connections before the rear panel connections.

Connect the CPU cables to the Smart 4 rear panel, and to the computers. Figure 3 illustrates the CPU cables connected to the Smart 4 and computers 1 and 4. The connections are the same for computers 2 and 3.

Operating the Smart 4

To prepare the system for operation:

1. Connect the cables to the front panel.
2. Connect the cables to the back panel.
3. Switch on the computers.

Switching between computers

There are two ways to switch between computers.

1. On the front panel of the Smart 4, press the button to switch to the next computer.
2. On the keyboard:

To switch to the next computer forwards press **Shift** then, +. Release **Shift**, before pressing +.

To switch to the next computer backwards press **Shift** then, -. Release **Shift**, before pressing -.

Note! With a US English keyboard you can use the + key of the alphanumeric section or of the numeric keypad. With a Non-US English keyboard only use the + key of the numeric keypad.

When switching computers the illuminated LED of the bottom bank indicates which computer is currently selected.

Scanning computers

The Smart 4 can scan the connected computers at intervals of between 1 and 99 seconds. The default time period is 0 seconds (disabled) – change this in the Settings mode see the paragraph below. During scanning you cannot work on the computers.

To scan computers:

Press the hotkey **Shift** then, **S**. Release **Shift** before pressing **S**. The scan activates.

To end scanning:

Press **Esc**.

The Settings mode

Enter the Settings mode to:

- Set the scan time interval
- Change the hotkey
- Make advanced adjustments
- View settings

To enter the Settings mode:

Press **Shift** then, **Tab**. Release **Shift** before pressing **Tab**. All 3 keyboard LEDs glow when in the Settings mode.

Setting the scan time period

To set the scan time period:

Press **T** followed by a 2-digit time period of between 01-99 seconds. The 3 keyboard LEDs blink and the new setting is now functional.

Changing the hotkey

You can change the hotkey from **Shift** to **Alt** or **Ctrl**. Once changed, all references in this Guide to **Shift** now refer to the new hotkey.

To change the hotkey:

To	Type the letters
Alt	HA
Ctrl	HC
Shift	HS

Resetting the Smart 4

To reset the Smart 4:

Press and hold the Switching button for more than 5 seconds. Release the Switching button after your monitor blinks once.

Making advanced adjustments

The Smart 4 operates with:

- Windows, Linux, HP UX, Alpha UNIX or SGI systems
- 2 or 3 button PS/2 mouse, Intellimouse, Wheel mouse or 5-button mouse

Replacing a computer

When a computer is replaced with a different computer type while the Smart 4 is in use, we recommend turning the new computer off before connecting it to the Smart 4.

When turning the computers off is inconvenient, do the following:

In the Settings mode adjust the keyboard and mouse to be compatible with the new computer. See the tables below.

Keyboard settings when replacing a computer

For	Type the letters
PC (Windows, Linux)	PC
HP UX	U1
Alpha UNIX, SGI	U2

Set keyboard settings to:

- **PC** when operating Intel based computers.
- **U1** when operating HP UX computer.
- **U2** when operating Alpha UNIX, SGI or Open VMS computers.

Mouse settings when replacing a computer

For	Type the letters
5-button mouse	EP
Wheel mouse, 5-button mouse or Intellimouse	IN
2 or 3-button mouse	PS

Set mouse settings to **EP** when operating computers with Operating Systems that support wheel mouse functionality: (Windows XP).

Set mouse settings to **IN** when operating computers with Operating Systems that support wheel mouse functionality: (Windows – 98, ME, 2000, XP or Linux).

Set mouse settings to **PS** when operating computers with Operating Systems that don't support wheel mouse functionality: (Windows 95, NT4, DOS, Linux, UNIX or Novell).

Viewing the settings

View the settings and firmware revision in any text editor.

To view the settings:

1. Before entering to the Settings mode switch your keyboard layout to English.
2. Open any text editor, e.g. Notepad.
3. Press **Shift, Tab** to enter the Settings mode.
4. Press **F**. The settings appear in the text editor.

Exiting the Settings mode

To save changes and exit the Settings mode:

Press **Esc**.

A summary of the Settings mode operations

The table below sets out the Settings mode operations.

Operation	Press
Enter Settings mode	Shift, Tab
Exit and save changes	Esc
Set the scan time period	T, xx (00-99)
Change Hotkey to Alt	HA
Change Hotkey to Ctrl	HC
Change Hotkey to Shift	HS
Mouse setting - 5-button mouse	EP
Mouse setting - Wheel mouse or Intellimouse	IN
Mouse setting – two-button mouse	PS
Keyboard setting – PC	PC
Keyboard setting –HP UX	U1
Keyboard setting –Alpha UNIX	U2
View Status Report	F

Technical Specifications

Resolution	Up to 1920 x 1440@75 Hz
Video Signal	Analog Signal: Red Green Blue 0.7Vp-p / 75Ω positive, HD15
Video Sync	TTL Compatible positive/negative
Keyboard	PS/2 type, MiniDIN6
Mouse	Microsoft Intellimouse, Wheel mouse, PS/2 type mouse, 5-button mouse. MiniDIN6
Computer types	Intel, Alpha compatible
Platforms	IBM Compatible, PS/2 (SUN with external adapter)
Operating Systems	Windows - 3.1, 9x, 2000, ME, XP, NT4, SGI, Novell, DOS, Linux, HP UX, Alpha UNIX, Open VMS, True64, QNX, FreeBSD, BeOS.
Dimensions	170 x 90.5 x 40.5 mm
Weight	580g
Power consumption	120mA
Power supply (optional)	6V 2A
Operating temperature	0° C to 40° C / 32°F to 104°F
Storage temperature	-40° C to 70° C / -40°F to 158°F
Humidity	80% non condensing relative humidity