

Firmware Upgrade Notice

26 June 2008

Description

Revised firmware for ALL PS/2 KVM Extender LOCAL Units has just been released to production. This release fixes two low-level issues found since the last release in January 2008.

This upgrade release is for PS/2 products only.

All extender products have a version number label on the base in the following format:

xxSyy/zz where **xx** = Hardware Version, **yy** = Firmware Version & **zz** = Daughterboard Version

Local Units Affected

For the following PS/2 or PS/2 + Serial products this release version is known as 49H

- Previous Firmware Version: 49G (Released January 2008)
- New Firmware Version: 49H

SDLink1, SDLink2, SDLink/LC, SDLink/DM, SDLink/PS2, SDRK/6, SDRK/6D, SDRK/12, SDBX/S1, SDLink1/S, SDLink2/S, SDRK/6S, SDRK/6SD, SDBX/S2

For the following PS/2 or PS/2 + Audio/Serial products this release version is known as 55

- Previous Firmware Version: 54 (Released January 2008)
- New Firmware Version: 55

SDLink/AM, SDLink1/AUA, SDLink2/AU, SDLink2/SW, SDRK/6A, SDRK/6AD, SDBX/D1, SDBX/SA1, SDBX/DA1, SDBX/SA2

For the following Dual-Head PS/2 products this release version is known as 64

- Previous Firmware Version: 63 (Released January 2008)
- New Firmware Version: 64
- The following products are all flash upgradeable. Firmware may be downloaded from <http://manuals.kvmextender.info> and installed using the ConfigXT application.

SDBX/S2-1, SDBX/SA2-1, SDBX/D2, SDBX/DA2, SDMX/S2, SDMX/SA2, SDMX/D2, SDMX/DA2

All the above firmware versions are based upon the same kernel (49H) where the changes are made. In the notes below, this release is referred to as 49H.

Issues Fixed

49H: Fixed the following mouse issue with the HP DL140 G3 server: When an extender is first connected the mouse will operate correctly, but on subsequent reboots the mouse is inoperative.

The problem was due to a flag not being cleared because this CPU always aborts the mouse response to a reset request prior to completion. The result was the extender claimed to be a wheel mouse whilst the BIOS was expecting it to respond as a standard mouse. This led to an endless loop in which the BIOS attempts to reset the mouse and never getting the answer it wants. In this condition the keyboard response was affected too.

The affected flag is now cleared on entry to the reset routine.

49H: Mouse issue with Adder Server Switches using GEM based firmware.

With these switches the mouse would sometimes be inoperative, or the switch would detect the mouse as being in a different mode causing the switch to change channel whenever the mouse is moved.

Under certain conditions the extender would sometimes not clock in a particular mouse command issued by the Adder switch. As the GEM firmware never appears to retry, the mouse initialisation sequence was incomplete leading to either no mouse operation or a mode mismatch between the switch and the extender.

The issue was fixed by adjusting some timers in the extender firmware in order to avoid this sequence of events.

Note: This issue was first reported with a dual-head switch in conjunction with a dual-head extender. In this combination you **MUST** connect an additional PSU either to the switch or the extender because the current draw and voltage drop (through two diodes) is otherwise too much to ensure reliable extender operation. In fact, it is good practice to use an additional PSU in any case where erratic operation is encountered in conjunction with an interface powered KVM switch.