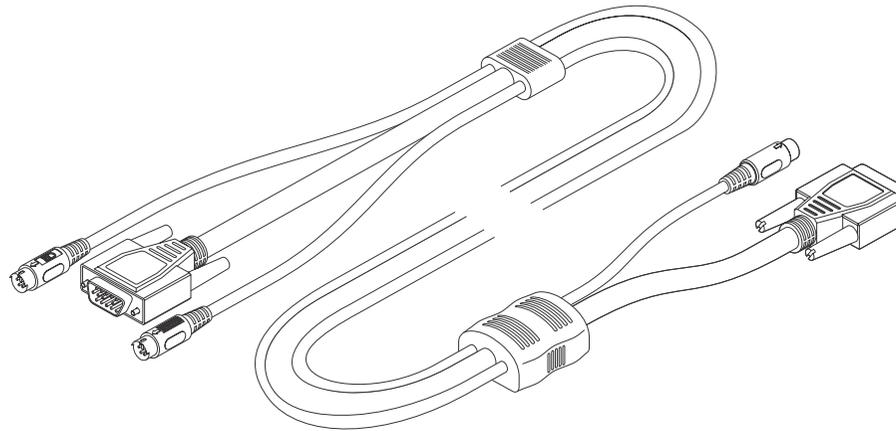


# Sun<sup>®</sup> Converter Cable

Software upgrade and  
keyboard emulation guide



## Software upgrades and keyboard emulations

The internal software of your Sun converter cable can be upgraded to utilize the latest features and functionality. Additionally the converter cable can be made to declare a particular country code to the Sun computer when not used in conjunction with Black Box USB KVM switches.

This guide covers all of the steps needed to perform such operations, which are arranged into four main stages:

*Note: You need to use a Windows<sup>®</sup>-based computer system to carry out the upgrade process.*

- **Stage one** Download upgrade files from the Black Box website.
- **Stage two** Create a startup diskette
- **Stage three** Copy the files and edit the control file.
- **Stage four** Reconnect the Sun converter cable and reboot.

STAGE ONE

STAGE TWO

STAGE THREE

STAGE FOUR

## Stage one - Download the upgrade files

### To download the files

- 1 Access the Black Box website ,enter the Support section. Choose the upgrade option that best suits your requirements and download it to your system.
- 2 Decompress the downloaded file. Depending on the chosen option, there will be a collection of suitable files. As a minimum, there should be the following files:
  - AUTOEXEC.BAT – directs the computer to run the driver update and firmware upgrade programs.
  - PS2SUN.EXE – this is the upgrade program that causes upgrade data to be sent to the Sun converter cable from a Windows-based computer.
  - SUN103.S19 – this is the Sun keyboard driver file.

Now please follow [Stage two](#).

## Stage two - Create a startup diskette

For this stage you will need a Windows-based computer and a 3½ floppy diskette that is either blank or has existing contents that are no longer required. The write protect tab must be moved to the 'unprotected' position. Depending on your operating system, use one of the following to create a startup disk:

### To create a startup disk in Windows XP

- 1 Insert a diskette into the floppy disk drive.
- 2 Select 'Start' and then 'My Computer'.
- 3 Right mouse click on the '3½ Floppy (A:)' icon and select 'Format'.
- 4 Check the 'Create an MS-DOS startup disk' box and select 'Start'.

### To create a startup disk in Windows 95/98/Me

- 1 Insert a formatted diskette into the floppy disk drive.
- 2 Select 'Start', then 'Settings' and then 'Control Panel'.
- 3 Double click on the 'Add/Remove Programs' icon.
- 4 Select the 'Startup Disk' tab.
- 5 Click 'Create Disk' and follow the instructions.

### To create a startup disk in Windows 95/98 (alternative method)

- 1 Insert a diskette into the floppy disk drive.
- 2 Right mouse click on the '3½ Floppy (A:)' icon and select 'Format'.
- 3 Select the 'Full format' option and ensure that the 'Copy system files' box is checked.
- 4 Select 'Start' to format the disk.

### To create a startup disk from MS-DOS or a DOS window within Windows 95/98

- 1 Insert a diskette into the floppy disk drive and check that the drive is configured as drive A (it usually is).
- 2 At the DOS prompt (C:\>) type:  

```
FORMAT A: /S
```

and follow the instructions given by DOS.

Now please follow [Stage three](#).

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## Stage three - Copy the files and edit the control file

In order to choose the appropriate upgrade/keyboard emulation options, you now need to copy the downloaded files to the diskette and then edit the AUTOEXEC.BAT control file.

- 1 Using Windows Explorer or the My Computer option, copy the downloaded and decompressed files from your computer to the floppy diskette.
- 2 Using a text editor, such as Notepad or Wordpad, open the AUTOEXEC.BAT file on the floppy diskette (A:). The file will contain a command line similar to the one shown here:

```
PS2SUN SUN103.S19 /C21
```

The command line relates to the country code that you wish to send to the Sun system.

- The /Cnn suffix optionally sets a country code that will be reported to the Sun system (in this case /C21 relates to the US country code). A full list of country codes is provided opposite.
- 3 When all required changes have been made, save the AUTOEXEC.BAT file. Do not change the name otherwise it will not be recognized by the system.

Now please follow *Stage four*.

### Keyboard country codes

Country	nn code
Chinese	3C
Czech	35
Danish	24
Dutch	27
Estonian	3A
Finnish	3D
French	23
French Canadian	32
German	25
Greek	39
Hungarian	33
Italian	26
Japanese	31
Korean	2F
Latvian	37

Country	nn code
Lithuanian	3B
Norwegian	28
Poland	34
Portuguese	29
Russian	36
Spanish	2A
Swedish	2B
Swiss French	2C
Swiss German	2D
Taiwanese	30
Turkish	38
UK	2E
UNIX	22
US	21

STAGE ONE

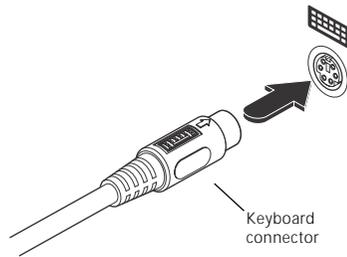
STAGE TWO

STAGE THREE

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## Stage four - Reconnect Sun converter cable and reboot

- 1 On the Windows-based computer from which you will run the upgrade, ensure that its BIOS settings will allow it to boot from the floppy diskette drive, rather than booting immediately from the hard drive.
- 2 Switch off the computer and remove its keyboard connector.
- 3 Disconnect your Sun converter cable (if connected) from its computer and KVM switch.
- 4 At the end of the converter cable that has three plugs, locate the keyboard plug (purple with  icon) and connect it to the keyboard socket of the Windows-based computer. This is the reverse of the usual connection method and the cable will automatically detect this to prepare itself for the upgrade procedure.



- 5 With the upgrade diskette installed in the drive, switch on the computer. The computer must boot from the floppy diskette and will then automatically perform the upgrade/apply the keyboard & country code. The upgrade process should take no more than two to three minutes and a progress indicator will be displayed on screen. Once the upgrade is complete, switch off the computer and disconnect the Sun converter cable.
- 6 Reconnect the Sun converter cable between the Sun computer and the KVM switch.

## Sun system keypress equivalents

Once the Sun keyboard emulator has been downloaded, you can emulate the extra keys on a Sun keyboard using the following PS/2 key press combinations.

### PS/2 keyboard

Right-[Ctrl] [F1]  
Right-[Ctrl] [F2]  
Right-[Ctrl] [F3]  
Right-[Ctrl] [F4]  
Right-[Ctrl] [F5]  
Right-[Ctrl] [F6]  
Right-[Ctrl] [F7]  
Right-[Ctrl] [F8]  
Right-[Ctrl] [F9]  
Right-[Ctrl] [F10]  
Right-[Ctrl] [1]  
Right-[Ctrl] [2]  
Right-[Ctrl] [3]  
Right-[Ctrl] [4]  
Right-[Ctrl] [H]

### Sun keyboard

Stop  
Again  
Props  
Undo  
Front  
Copy  
Open  
Paste  
Find  
Cut  
Mute  
Volume -  
Volume +  
Power\*  
Help

\* Certain PS/2 keyboards have a power key which will be mapped to perform the same function for a Sun system.

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STAGE FOUR