

4:siliconmotion

siliconmotion - Silicon Motion video driver

Contents [1 SYNOPSIS](#) [2 DESCRIPTION](#) [3 SUPPORTED HARDWARE](#) [4 CONFIGURATION DETAILS](#) [5 RELATED](#) [6 SUPPORT](#) [7 CATEGORY](#)

SYNOPSIS

```
Section "Device"
    Identifier "devname"
    Driver "siliconmotion"
    ...
    [ Option "optionname" ["optionvalue"]]
EndSection
```

DESCRIPTION

siliconmotion is an XFree86 driver for Silicon Motion based video cards. The driver is fully accelerated, and provides support for the following framebuffer depths: 8, 16, and 24. All visual types are supported for depth 8, and TrueColor visuals are supported for the other depths.

SUPPORTED HARDWARE

The **siliconmotion** driver supports PCI and AGP video cards based on the following Silicon Motion chips:

Lynx	SM910
LynxE	SM810
Lynx3D	SM820
LynxEM	SM710
LynxEM+	SM712
Lynx3DM	SM720

CONFIGURATION DETAILS

Please refer to [XF86Config\(5\)](#) for general configuration details. This

section only covers configuration details

specific to this driver. All options names are case and white space insensitive when parsed by the server, for example, "lynxe" and "LynxE" are equivalent.

The driver auto-detects the chipset type, but the following **ChipSet** names may optionally be specified in the config file **"Device"** section, and will override the auto-detection:

"lynx", "lynxe", "lynx3d", "lynxem", "lynxem+", "lynx3dm".

The following Cursor **Options** are supported:

Option "HWCursor" "boolean"

Enable or disable the HW cursor. Default: on.

Option "SWCursor" "boolean"

Inverse of "HWCursor". Default: off.

The following display **Options** are supported:

Option "ShadowFB" "boolean"

Use shadow framebuffer. Default: off.

Option "Rotate" "CW"

Option "Rotate" "CCW"

Rotate the screen CW - clockwise or CCW - counter clockwise. Uses ShadowFB. Default: no rotation.

Option "VideoKey" "integer"

Set the video color key. Default: a little off full blue.

Option "ByteSwap" "boolean"

Turn on byte swapping for capturing using SMI demo board. Default: off.

Option "Interlaced" "boolean"

Turn on interlaced video capturing. Default: off.

Option "UseBIOS" "boolean"

Use the BIOS to set the modes. This is used for custom panel timings. Default: on.

Option "ZoomOnLCD" "boolean"

Allow changing resolution on LCD (Ctrl-Alt-Plus and Ctrl-Alt-Minus). Default: off.

Option "Dualhead" "boolean"

Enable dualhead mode. Due to hardware limitations, dualhead is limited to depth 16 and to the panel size and timings on both the flat panel and the CRT and the CRT must be to the right of the flat panel. Only

lynx chips are supported at the moment. Default: off.

The following video memory **Options** are supported:

Option "set_mclk" "*integer*"

sets the memory clock, where *integer* is in kHz, and *integer* <= 100000. Default: probe the memory clock value, and use it at server start.