NAME

    zyd - ZyDAS ZD1211/ZD1211B USB IEEE 802.11b/g wireless network device

SYNOPSIS

    To compile this driver into the kernel, place the following lines in your kernel configuration file:

        device ehci
        device uhci
        device ohci
        device usb
        device zyd
        device wlan
        device wlan_amrr

    Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

        if_zyd_load="YES"

DESCRIPTION

    The **zyd** driver provides support for wireless network adapters based around the ZyDAS ZD1211 and ZD1211B USB chips.

    zyd supports **station** and **monitor** mode operation. Only one virtual interface may be configured at any time. For more information on configuring this device, see ifconfig(8).

HARDWARE

    The following devices are known to be supported by the **zyd** driver:

        3COM 3CRUSB10075
        Acer WLAN-G-US1
        Airlink+ AWLL3025
        Airlink 101 AWLL3026
        AOpen 802.11g WL54
        Asus A9T integrated wireless
        Asus WL-159g
        Belkin F5D7050 v.4000
        Billion BiPAC 3011G
        Buffalo WLI-U2-KG54L
        CC&C WL-2203B
        DrayTek Vigor 550

Edimax EW-7317UG

Edimax EW-7317LDG

Fiberline Networks WL-43OU

iNexQ UR055g

Linksys WUSBF54G

Longshine LCS-8131G3

MSI US54SE

MyTek MWU-201 USB adapter

Philips SNU5600

Planet WL-U356

Planex GW-US54GZ

Planex GW-US54GZL

Planex GW-US54Mini

Safecom SWMULZ-5400

Sagem XG 760A

Sagem XG 76NA

Sandberg Wireless G54 USB

Sitecom WL-113

SMC SMCWUSB-G

Sweex wireless USB 54 Mbps

Tekram/Siemens USB adapter

Telegent TG54USB

Trendnet TEW-424UB rev A

Trendnet TEW-429UB

TwinMOS G240

Unicorn WL-54G

US Robotics 5423

X-Micro XWL-11GUZX

Yakumo QuickWLAN USB

Zonet ZEW2501

ZyXEL ZyAIR G-202

ZyXEL ZyAIR G-220

EXAMPLES

The following example configures zyd0 to join any BSS network using WEP key "0x1deadbeef1", channel 11:

```
ifconfig wlan create wlandev zyd0 channel 11 \
    wepmode on wepkey 0x1deadbeef1 weptxkey 1 \
    inet 192.168.1.1 netmask 255.255.255.0
```

Join an existing BSS network, "my_net":

    ifconfig wlan create wlandev zyd0 192.168.0.2 \
        netmask 0xffffff00 ssid my_net

DIAGNOSTICS

zyd%d: could not load firmware (error=%d) An error occurred while attempting to upload the firmware to the onboard microcontroller unit.

zyd%d: could not send command (error=%s) An attempt to send a command to the firmware failed.

zyd%d: sorry, radio %s is not supported yet Support for the specified radio chip is not yet implemented in the driver. The device will not attach.

zyd%d: device version mismatch: 0x%x (only >= 43.30 supported) Early revisions of the ZD1211 chipset are not supported by this driver. The device will not attach.

zyd%d: device timeout A frame dispatched to the hardware for transmission did not complete in time. The driver will reset the hardware. This should not happen.

SEE ALSO

intro(4), netintro(4), usb(4), wlan(4), wlan_amrr(4), wlan_ccmp(4), wlan_tkip(4), wlan_wep(4), ifconfig(8), wpa_supplicant(8)

AUTHORS

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CAVEATS

The **zyd** driver does not support a lot of the functionality available in the hardware. More work is required to properly support the IBSS and power management features.