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.