#### **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.