

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.15.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/07/13
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_15_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.15.0.0</b>	<b>2.14.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

##### **- Bug fix**

1. SMP support
2. Remove noise level reporting. ZD1211 is not capable of that.
3. Scanning results show from head/tail respectively.
4. System freeze fix.

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.14.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/07/07
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_14_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.14.0.0</b>	<b>2.13.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

- Bug fix

1. UW2453\_RF Settings update

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.13.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/06/16
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_13_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.13.0.0</b>	<b>2.12.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

##### **- New Feature**

1. Special MAC set mechanism for chariot testing on embedded system. Please refer to user guide 3.8.
2. Rate Adaption function.

##### **- Bug fix**

1. Fix for BigEndian system
2. In slower system, rx buffer could be drained before allocating new ones. This causes the driver rx stopped.
3. Association with all zero MAC address AP could result in system freeze.

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.12.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/05/30
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_12_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.12.0.0</b>	<b>2.11.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

- Bug fix

1. Compilation errors and warnings fix.

# Release Note For ZD1211 WLAN Linux Software Package

## Version 2.11.0.0

### 1. Release Information

Release Date	2006/05/26
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	ZD1211LnxDrv_2_11_0_0.tar.gz
Utilities	

#### 1.1 Version Information

Release Content	This Version	Last Version	Changed
Driver	<b>2.11.0.0</b>	<b>2.10.0.0</b>	<b>Yes</b>

### 2. Release Note

#### Driver :

##### - Bug fix

1. Fix unnecessary error message of Makefile.
2. Reuse old firmware for large packet support. The new one fix reboot issue. But it doesn't support large packet.

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.10.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/05/25
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_10_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.10.0.0</b>	<b>2.9.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

- New feature(s)
  1. SES Element reporting
- Bug fix
  1. Compile error when Turbo Mode is off.
  2. ZD1211 must re-plug after reboot.
  3. In associated state, disconnection after site survey.

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.9.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/05/15
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_9_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.9.0.0</b>	<b>2.8.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

- New features

1. ZyDAS Turbo Mode (Burst Mode + Large Packet) Support

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.8.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/05/08
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_8_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.8.0.0</b>	<b>2.7.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

##### **- New features**

1. Simple Production Interface support. Debug command only
2. UW2453 RF Support

##### **. - Bug Fix**

1. Fix usb\_unlink\_urb compatibility issue.
2. HW\_Set\_IF\_Synthesizer doesn't lock phy reg.
3. Fix kevent stops scanning when schedule SCAN\_TIMEOUT fails.
4. Comment unused RF functions.



# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.7.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/04/17
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_7_0_0.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.7.0.0</b>	<b>2.6.0.0</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

##### **- New features**

1. Add 1 supported devices PID/VID

##### **. - Bug Fix**

1. Fix frequency shift issue

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.6.0.0**

### **1. Release Information**

<b>Release Date</b>	2006/03/31
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_6_0_0.tar.gz wpa_supplicant-0.4.7_zydass.tar.gz
<b>Utilities</b>	

#### **1.1 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.6.0.0</b>	<b>2.5.0.0</b>	<b>Yes</b>
<b>WPA Supplient</b>	<b>0.4.7</b>	<b>0.3.9</b>	<b>Yes</b>

### **2. Release Note**

#### **Driver :**

##### **- New features**

1. Airoha AL2230S RF Support
2. Add 2 supported devices PID/VID

##### **. - Bug Fix**

1. Fix unsupported functions issue in kernel > 2.6.13
2. Fix for bandedge(CH1, CH11) issue

#### **Other :**

1. You must use the new wpa\_supplicant. The old version won't work on newer kernel.

# **Release Note For ZD1211 WLAN Linux Software Package**

## **Version 2.5.0.0**

### **1. Release Information**

#### **1.1. Application Information**

<b>Release Date</b>	2006/03/08
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_5_0_0.tar.gz

#### **1.2. Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.5.0.0</b>	<b>2.4.0.0</b>	<b>V</b>

### **Release Notes**

#### **Bug Fix :**

- When used as AP and a STA with PSM, driver fills header with wrong subtype.

#### **Other:**

- Add supported PID/VID

# Release Note For ZD1211 WLAN Linux Software Package

## Version 2.4.0.0

### 1. Release Information

#### 1.3. Application Information

Release Date	2006/01/24
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	ZD1211LnxDrv_2_4_0_0.tar.gz

#### 1.4. Version Information

Release Content	This Version	Last Version	Changed
Driver	<b>2.4.0.0</b>	<b>2.3.1.0</b>	<b>V</b>

### 2. Release Notes

Details are described in change log.

#### Bug Fixing :

- It fails when compile ZD1211B code.
- Some debugging messages are removed.
- Fix compile option problem.
- Firmware update

# Release Note For ZD1211 WLAN Linux Software Package

## Version 2.3.1.0

### 1. Release Information

#### 1.5. Application Information

Release Date	2005/12/02
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	ZD1211LnxDrv_2_3_1_0.tar.gz

#### 1.6. Version Information

Release Content	This Version	Last Version	Changed
Driver	<b>2.3.1.0</b>	<b>2.3.0.0</b>	<b>V</b>

### 2. Release Notes

#### New feature :

- Apply bin four adjustment.

# Release Note For ZD1211 WLAN Linux Software Package

## Version 2.3.0.0

### 1. Release Information

#### 1.7. Application Information

Release Date	2005/11/25
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	ZD1211LnxDrv_2_3_0_0.tar.gz

#### 1.8. Version Information

Release Content	This Version	Last Version	Changed
Driver	2.3.0.0	2.2.0.0	V

### 2. Release Notes

**New feature :**

- WPA2 Support.
- Kernel support wireless statistics callback function.

**Bug Fix :**

- Read register fail but return valid value.

**Other:**

- Revise Tx calibration interval.
- Wrong condition compile option.
- Remove all inline declare.

# Release Note For ZD1211 WLAN Linux Software Package

## Version 2.2.0.0

### 1. Release Information

#### 1.9. Application Information

Release Date	2005/09/15
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	ZD1211LnxDrv_2_2_0_0.tar.gz

#### 1.10. Version Information

Release Content	This Version	Last Version	Changed
Driver	2.2.0.0	2.1.0.0	V

### 2. Release Notes

**New feature :**

- Dual band Support with AL7230B RF

**Bug Fix :**

- Revise the scanning mechanism
- Fix kernel panic problem when WPA-PSK key is wrong.
- Site survey is available even if the device is in down state.
- WPA state remains when wpa\_supplicant is stopped.

**Other:**

- WPA counter measure mechanism is initially disabled. You need to activate this feature manually. (Refer to UserGuide 3.4.8)

## **Release Note For ZD1211 WLAN Linux Software Package** **Version 2.1.0.0**

### **1. Release Information**

#### **1.11. Application Information**

<b>Release Date</b>	2005/08/19
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_1_0_0.tar.gz

#### **1.12. Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>2.1.0.0</b>	<b>2.0.0.0</b>	<b>V</b>

### **2. Release Notes**

**New feature :**

- A new debugging tool and its ioctl interface.

**Bug Fix :**

- In some environments, the connection is very unstable.
- Rx buffer alignment problem.

## **Release Note For ZD1211 WLAN Linux Software Package** **Version 2.0.0.0**

### **3. Release Information**

#### **1.13. Application Information**

<b>Release Date</b>	2005/08/8
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_2_0_0_0.tar.gz

#### **1.14. Version Information**

Release Content	This Version	Last Version	Changed
Driver	<b>2.0.0.0</b>	<b>1.7.0.0</b>	<b>V</b>

#### 4. Release Notes

New feature :

- The new driver can work with ZD1211 and ZD1211B.

Note : The compile process is slightly different. Please refer to user guild 2.2 and 2.3.

### **Release Note For ZD1211 WLAN Linux Software Package** **Version 1.7.0.0**

#### 5. Release Information

##### 1.15. Application Information

Release Date	2005/08/8
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	ZD1211LnxDrv_1_7_0_0.tar.gz

##### 1.16. Version Information

Release Content	This Version	Last Version	Changed
Driver	<b>1.7.0.0</b>	<b>1.6.0.0</b>	<b>V</b>

#### 6. Release Notes

New feature :

- Continuous Tx operation.

Bug Fix :

- Counter measure functions now.
- Supplicant can't work with fragmentation.
- When operation in bridged host, transmission fail causes bridge to disable wireless lan port.
- In WPA-PSK, STA doesn't disassociate with AP after receiving 2 MIC fail notification.

### **Release Note For ZD1211 WLAN Linux Software Package** **Version 1.6.0.0**

#### 7. Release Information

##### 1.17. Application Information

Release Date	2005/07/11
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<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_1_6_0_0.tar.gz

### 1.18. Version Information

Release Content	This Version	Last Version	Changed
Driver	<b>1.6.0.0</b>	<b>1.5.0.0</b>	<b>V</b>

## 8. Release Notes

### Bug Fix :

- When running wpa\_supplicant, driver fills MIC at invalid memory location. It causes kernel panic.
- wpa\_supplicant doesn't reconnect when connection lost.
- When wpa\_supplicant is running , continuous ifconfig up/down interface causes system crash.

## Release Note For ZD1211 WLAN Linux Software Package Version 1.5.0.0

## 9. Release Information

### 1.19. Application Information

<b>Release Date</b>	2005/06/23
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_1_5_0_0.tar.gz

### 1.20. Version Information

Release Content	This Version	Last Version	Changed
Driver	<b>1.5.0.0</b>	<b>1.4.0.0</b>	<b>V</b>

## 10. Release Notes

### New Feature :

- Dynamic region setting. Please refer to user guide 3.4.7
- The signal quality/strength of iwlist ethX scanning result are now shown in percentage.

### Bug Fix :

- The set\_mac\_address function( ifconfig ethX hw ether XXYYZZAABBCC) can only be set once.
- Improperly AppleTalk/NETBIOS packet handling.
- The procedure, ifconfig up → iwlist scanning → ifconfig down → ifconfig up, makes driver corruption.
- When receiving broadcast/multicast frames which the address3 is ourself,



the frames should be discarded.

- Promiscuous mode does not take effect.

## **Release Note For ZD1211 WLAN Linux Software Package** **Version 1.4.0.0**

### **11.Release Information**

#### **1.21. Application Information**

<b>Release Date</b>	2005/06/15
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#### **1.22. Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
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### **12.Release Notes**

- There is no version 1.4. The goal is to prevent confusing with an unofficial release 1.4 released earlier than 1.3.

## **Release Note For ZD1211 WLAN Linux Software Package** **Version 1.3.0.0**

### **13.Release Information**

#### **1.23. Application Information**

<b>Release Date</b>	2005/06/06
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	ZD1211LnxDrv_1_3_0_0.tar.gz
	lnx_wpa_supplicant_1_1_0_0.tar.gz

#### **1.24. Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>1.3.0.0</b>	<b>1.2.7.0</b>	<b>V</b>
<b>Utility(wpa supplicant)</b>	<b>1.1.0.0</b>	<b>n/a</b>	<b>V</b>

### **14.Release Notes**

**New Feature :**

- WPA supplicant is supported now.(For detail , please refer to user guild)

**Bug Fix :**

- The set\_mac\_address function( ifconfig ethX hw ether XXYYZZAABBCC) doesn't apply to driver settings.

- You should inactivate your interface before setting the MAC address and reactivate it after this operation.

## Release Note For ZD1211 WLAN Linux Software Package

### Version 1.2.7.0

#### 15. Release Information

##### 1.25. Application Information

Release Date	2005/04/22
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	ZD1211LnxDrv_1_2_7_0.tar.gz

##### 1.26. Version Information

Release Content	This Version	Last Version	Changed
Driver	1.2.7.0	1.2.0.1	V

#### 16. Release Notes

##### Driver:

- Improve Ad-hoc mode 11g throughput.
- Use 802.11b-only mode as default setting in Ad-hoc mode.
- End.

Utility: n/a

## Release Note For ZD1211 WLAN Linux Software Package

### Version 1.2.0.1

#### 17. Release Information

##### 1.27. Application Information

Release Date	2005/03/30
Applied Interface	USB1.1,USB2.0
Applied OS	Linux (Kernel 2.4.x, Kernel 2.6.x)
Package File	linux_zd1211_drv_1_2_0_1.tar.gz

##### 1.28. Version Information

Release Content	This Version	Last Version	Changed
Driver	1.2.0.1	1.2.0.0	V

#### 18. Release Notes

**Driver:** Remove some debugging-purpose messages.

**Known issue:**

- Ad-hoc mode throughput is unstable when work in 11g 54Mbps mode.
- End.

**Utility:** n/a

## **Release Note For ZD1211 WLAN Linux Software Package** **Version 1.2.0.0**

### **1. Release Information**

#### **1.1 Application Information**

<b>Release Date</b>	2005/03/28
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	linux_zd1211_drv_1_2_0_0.tar.gz

#### **1.2 Version Information**

<b>Release Content</b>	<b>This Version</b>	<b>Last Version</b>	<b>Changed</b>
<b>Driver</b>	<b>1.2.0.0</b>	<b>1.0.0.0</b>	<b>V</b>

### **2. Release Notes**

**Driver:**

-Buf fixed:

Improve the stability of power saving mode.

**Utility:** n/a

## **Release Note For ZD1211 WLAN Linux Software Package** **Version 1.0.0.0**

### **1. Release Information**

#### **1.1 Application Information**

<b>Release Date</b>	2005/03/18
<b>Applied Interface</b>	USB1.1,USB2.0
<b>Applied OS</b>	Linux (Kernel 2.4.x, Kernel 2.6.x)
<b>Package File</b>	linux_zd1211_drv_1_0_0_0.tar.gz

#### **1.2 Version Information**

Release Content	This Version	Last Version	Changed
Driver	1.0.0.0	4916	V

## 2. Release Notes

### Driver:

-Bug fixed:

1. Ad-Hoc can't join with an existing IBSS network.
2. Re-association timer is too short issue.
3. The command: "iwlist ethx scan" will hang system(Not panic) during power saving mode is enabled.
4. Re-coonect with <any> ssid failed.
5. When the WEP key is changed, the system sometimes will be crashed.
6. When DUT connect AP for one night without sending any traffic, the system will be crashed.
7. When AP change its ssid, the zd1211 can't re-connect with <any> ssid.( tested in closed chamber, Only one AP in chamber)
8. When AP change channel to channel+1, the zd1211 can't update working channel.
9. The zd1211 unable to creat an IBSS when NO other BSSs can be found in the environment.(eg. In the chamber)
10. Send buffer leakage problem in Ad-hoc mode.

**Utility:** n/a