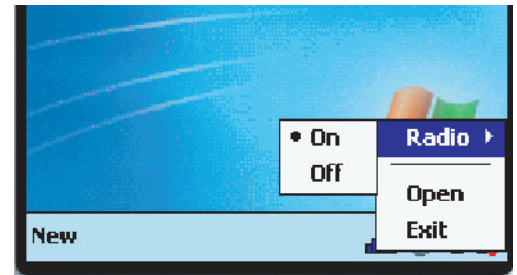




## ■ Wireless/Internet Speed Dial

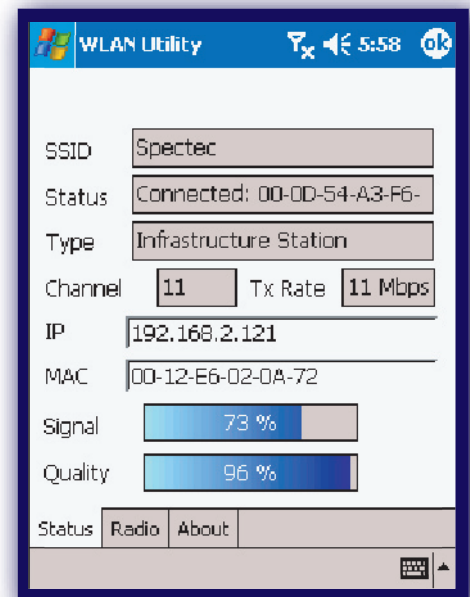
< Click 

1. Make quick changes to the wireless card **On/Off** function.
2. **“Open”** to go directly to WLAN Utility screen for more information.



WLAN Utility has 3 features (**Status/Radio/About**):

**\*Status** - Shows SSID, IP Address, Mac Address, Signal Strength, and Signal Quality information.

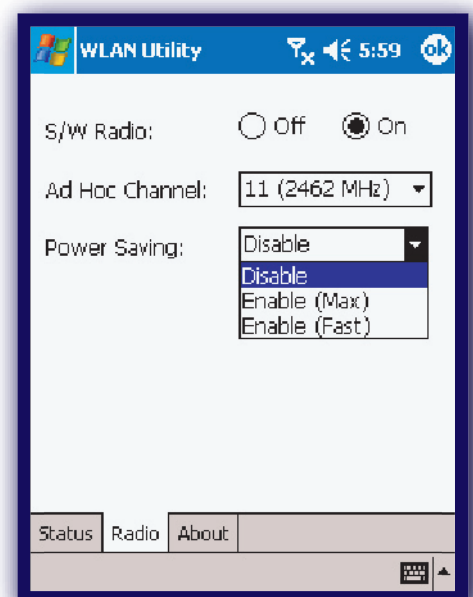


**\*Radio - Enable/Disable** Wi-Fi card and Power Saving mode selections.

- < Click **On** enables wireless network functions.
- < Click **Off** disables wireless network functions.
- < **Ad Hoc Channel:** Select ad hoc channels (1~11).

### Power Saving:

- < **Disable:** No power saving.
- < **Enable (Max):** Maximum power saving. May affect download speed.
- < **Enable (Fast):** No affect on the download speed (recommend).





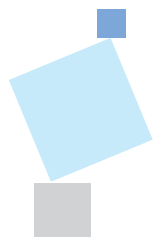
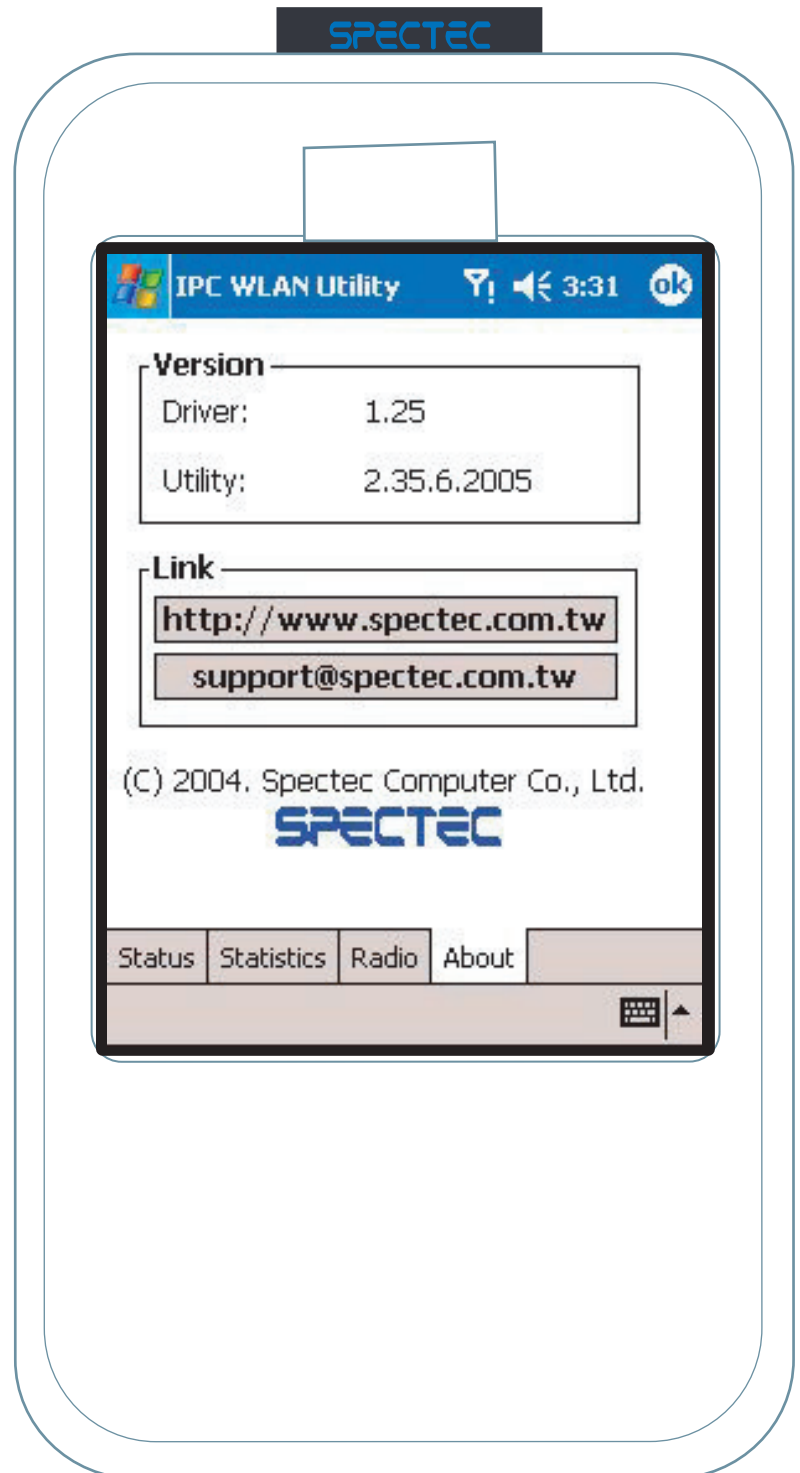
\***About** -- Shows SPECTEC connections info.

< **Driver:** Current version of driver you installed.

< **Utility:** Current version of utility you installed.


< **SPECTEC Web Site:**  
<http://www.spectec.com.tw>

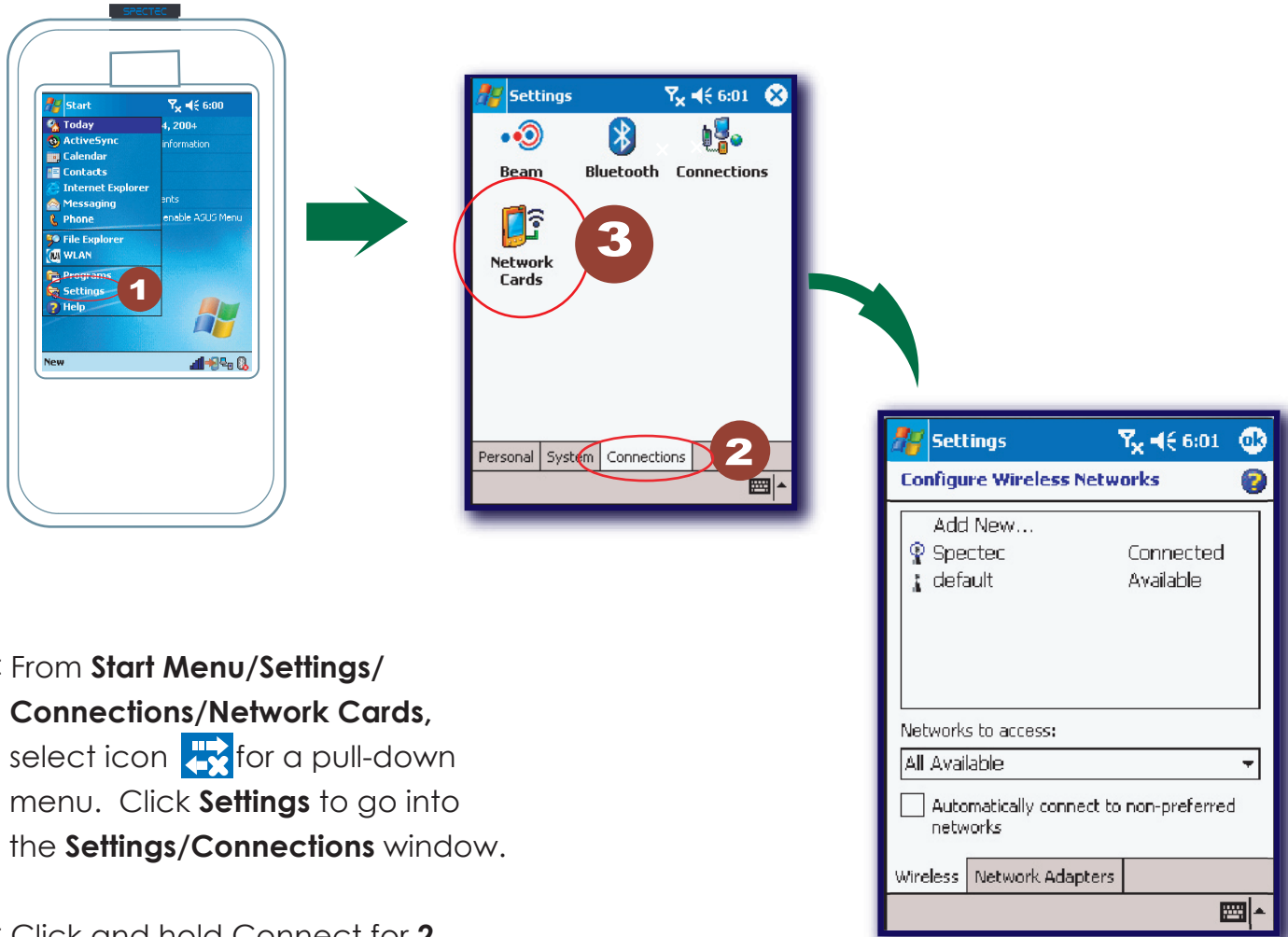
< **Technical Support:**  
[support@spectec.com.tw](mailto:support@spectec.com.tw)






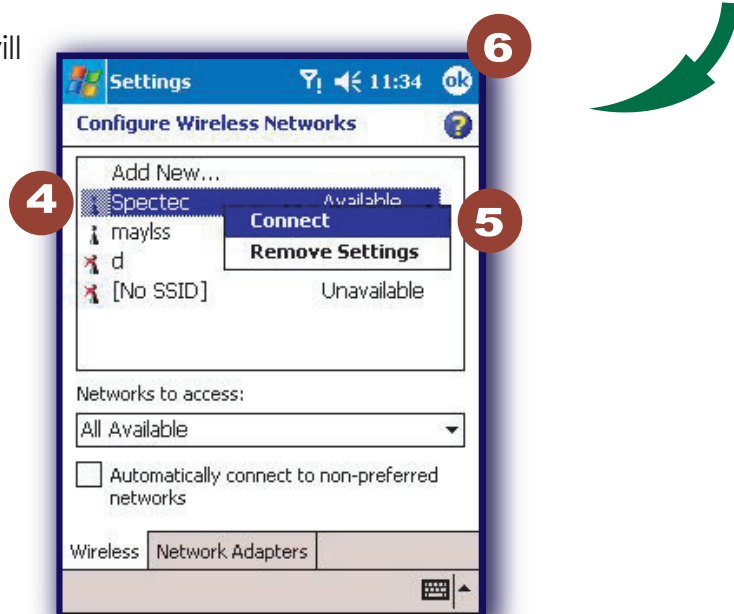
## To Select Networks Manually

After inserting SDIO WLAN card into PDA, if the icon  does not appear on the upper window, the network may be connected manually.



< From **Start Menu/Settings/Connections/Network Cards**, select icon  for a pull-down menu. Click **Settings** to go into the **Settings/Connections** window.

< Click and hold **Connect** for **2** seconds, then click **OK**. All available network selections will appear.



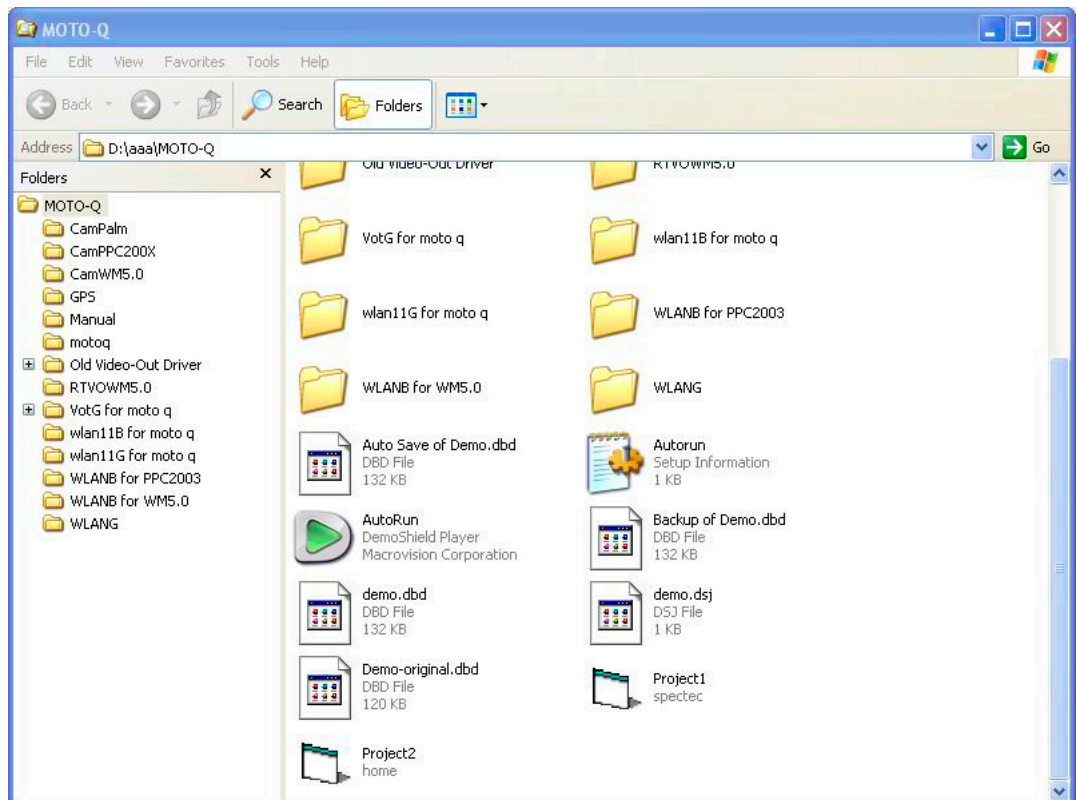


## CD info

< Click **Browse Contents** button to review all the files on CD



< Review all the files list on CD





## ■ How to Install Software with CAB File

### 1. Driver and Utility (cab file)

Take out the WLAN card, click **“reset”**, connect computer through **Microsoft Active Sync**, download Driver cab file copy to any list of PDA, **double-click it** to finish install.

### 2. User Manul download (Adobe PDF)

Please go to the address - <http://www.adobe.com/products/acrobat/readstep2.html> to download free Adobe Reader software



## AP Compatibility List

Test condition and test environment

DUT: WLAN-11b

Vendor	Accton		ASUS				Atheros		BENQ		BELKIN		Buffalo			
Model	IG 2004W		WL-500b		WL-530g		AR5002AP		AWL700		F5D7230		AG54		WLA-L11G-L	
Rate	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
Auto Rate	1.55	2.62	1.71	2.88	1.49	2.43	1.61	2.84	1.67	2.39	1.59	2.43	1.61	2.82	1.66	2.90

Vendor	Cisco		Corega		DLink				Gemtek		Interepoch		Intersil		Linksys	
Model	AP1220		WLBARGP		DLink624		DLink724		WX-1500 series		IWE-1100A		ISL39300		WRK 54G	
Rate	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
Auto Rate	1.67	2.87	1.67	2.67	1.63	2.80	1.63	2.80	1.61	2.44	1.60	2.44	1.70	2.91	1.64	2.78

Vendor	Maxim		OriNoCo		PCI		Proxim		RAYTAC		SMC		3Com			
Model	WAP-G54A		AP-200		BLW-04gm		AP 600		DS2400		WBR14-G		XJACK		AP2000	
Rate	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
Auto Rate	1.63	2.89	1.56	2.73	1.63	2.80	1.63	2.79	1.64	2.67	1.67	2.43	1.60	2.78	1.68	2.78

Vendor	Synnex		MSI		AboCom		SENAO		ZERO ONE	
Model	LM-WCAS3040		RG54G2		WB104k		NL-2511SR+		AF411W	
Rate	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX
Auto Rate	1.59	2.77	1.60	2.65	1.69	2.87	1.66	2.49	1.54	2.69

\* Measurements: mbps RX: Receiver TX: Sender

\* Test Environment : Night without Raining° C ~ 32 C

Distance from 5m ~ 30m

\* Collect data tool : Windows CE Platform Builder 5.0 performance monitor tool



## ■ Frequently Ask Question

**Q: After installing the CD-ROM, how many files will be installed onto the device?**

A: After installation, some dll files are installed in **My Device\Windows**, and the **WLAN Utility** in **Programs**. However, these files are quite small, and total about 300 KB.

**Q: How do I temporarily stop the wireless/internet connection?**

A: You can click on the “**Off**” button in **WLAN Utility**. When all 5 blue bars are white, Wi-Fi is disabled. Selecting the “**On**” setting will reconnect you to the internet.

**Q: What do the 5 bars from “WLAN Utility” indicate?**

A: These 5 bars show the strength of the signals. More blue bars indicate stronger signals, while all white bars indicate no connection.

**Q: Why can't I browse the web page even though the card has an IP address?**

A: When connecting to the internet with a weak signal, CRC may have too many errors to allow viewing a web page. Please try your connection around strong signals.

**Q: Can your Wi-Fi card be used for internet phone such as Skype?**

A: Yes, our Wi-Fi card can be used with Skype software. We suggest to use in an empty field, and with wired headphones for better results.



## Warranty

Thank you for your purchase of our product. For Spectec's quality service, please read the following for your rights.

1. Warranty period is 1 year, starting from the date of original purchase. Please provide original purchase receipt with purchase date when inquiring for service.
2. This product has passed all quality control and AP tests for quality assurance. We suggest to use it with the AP list, and other accepted industry-standard equipments.
3. If the damage is resulted from product design, defects in material or poor workmanship, we will repair or exchange your product.
4. This warranty does not cover failures resulted from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, improper maintenance, power line surge, lightning damage, modification, serviced by anyone other than an Authorized Servicer, or other natural causes.
5. This warranty does not cover failures caused by products not supplied by the warrantor.





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### **Spectec Computer Co., Ltd.**

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Fax: 886-2-2753-2949

Fax: 886-2-2753-2497

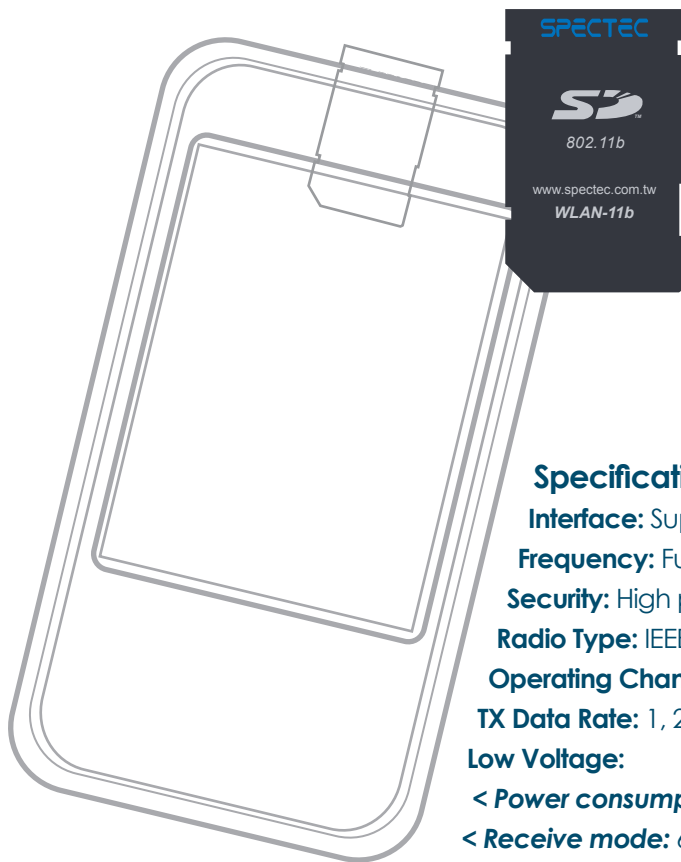
[www.spectec.com.tw](http://www.spectec.com.tw)

[spectec@spectec.com.tw](mailto:spectec@spectec.com.tw)

[spectec@ms17.hinet.net](mailto:spectec@ms17.hinet.net)



## SDW-820 SDIO WLAN-11b Card



### Specifications

**Interface:** Support SDIO 1.0

**Frequency:** Fully integrated, 2.4 GHz band direct conversion transceiver

**Security:** High performance engine for WEP, WPA, TKIP and AES support

**Radio Type:** IEEE 802.11b support DSSS system

**Operating Channels:** 1~14 channels

**TX Data Rate:** 1, 2, 5.5, 11 Mbps Data Rate

**Low Voltage:**

< **Power consumption:** Operating Voltage: 3.0 V ~ 3.5 V

< **Receive mode:** 60 mA

< **Transmit mode:** 116 mA for 15 dBm Pout

< **Avg. Operation:** 188 mA

**Support:**

< STA (Ad-hoc and infrastructure) and AP mode

< DCF/PCF

**OS Support:** PPC 2003, Windows Mobile 2003 Second Edition for PPC & Smartphone, Mobile 5.0 for PPC & Smartphone, WinCE 4.x

**Operating Range:** **Outdoor:** 200 ~ 400 m, **Indoor:** 100 m

**Certification:** FCC, CE, Wi-Fi Certified

**Dimension:** 28 mm x 20 mm x 1.4 mm

**Weight:** Aprox. 1.5 g

\*All specifications are subject to change without prior notice.



## **SDW-821 SDIO WLAN-11b/g Card**

SPECTEC

WLAN-11b/g  
SDIO WLAN Card

www.spectec.com.tw

### **Specifications**

**Network Standard Support:** IEEE 802.11b/g

Network Architectures: Infrastructure, Ad-Hoc

#### **Data Rates:**

< 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

< 802.11b: 1, 2, 5.5, 11 Mbps

**Modulation Techniques:** BPSK, QPSK, 16QAM, 64QAM, CCK, OFDM, DSSS

#### **Receiver Sensitivity:**

< **802.11g:** 73~91 dBm

< **802.11b:** 89~97 dBm

**Power Consumption:** Avg. Operating 138mA

**Supply Voltage:** I/O: 3.0 - 3.6 Vdc

**Operating Temperature:** 0.C to +70.C; <95% humidity

**Host Interface:** SDIO

**OS Support:** Microsoft Windows CE 4.2, 5.0, Windows

Mobile 2003 or above (for PPC & Smartphone) /

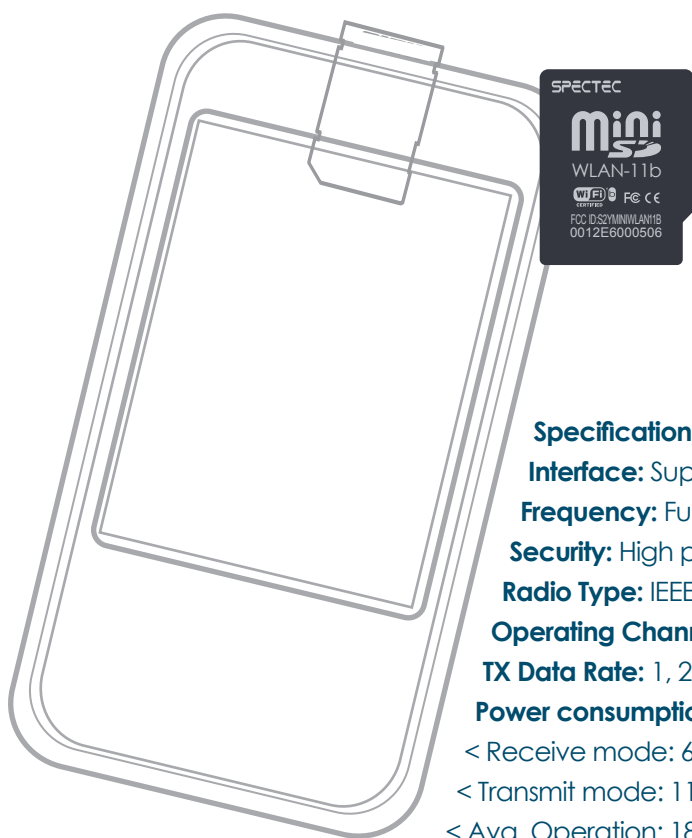
Linux V2.4.18 on samsung 2410/2440

**Dimension:** 38.3 x 24 x 2.1 mm

\*All specifications are subject to change without prior notice



## SDW-822 SDIO WLAN-11b Card



### Specifications

**Interface:** Support SDIO 1.0

**Frequency:** Fully integrated, 2.4 GHz band direct conversion transceiver

**Security:** High performance engine for WEP, WPA, TKIP and AES support

**Radio Type:** IEEE 802.11b support DSSS system

**Operating Channels:** 1~14 channels

**TX Data Rate:** 1, 2, 5.5, 11 Mbps Data Rate

**Power consumption:**

< Receive mode: 60 mA

< Transmit mode: 116 mA for 15 dBm Pout

< Avg. Operation: 188 mA

**Support:**

< STA (Ad-hoc and infrastructure) and AP mode

< DCF/PCF

**OS Support:** Microsoft Windows CE 4.2, 5.0, Windows Mobile 2003 or above (for PPC & Smartphone)

**Operating Voltage:** 3.0 V ~ 3.5 V

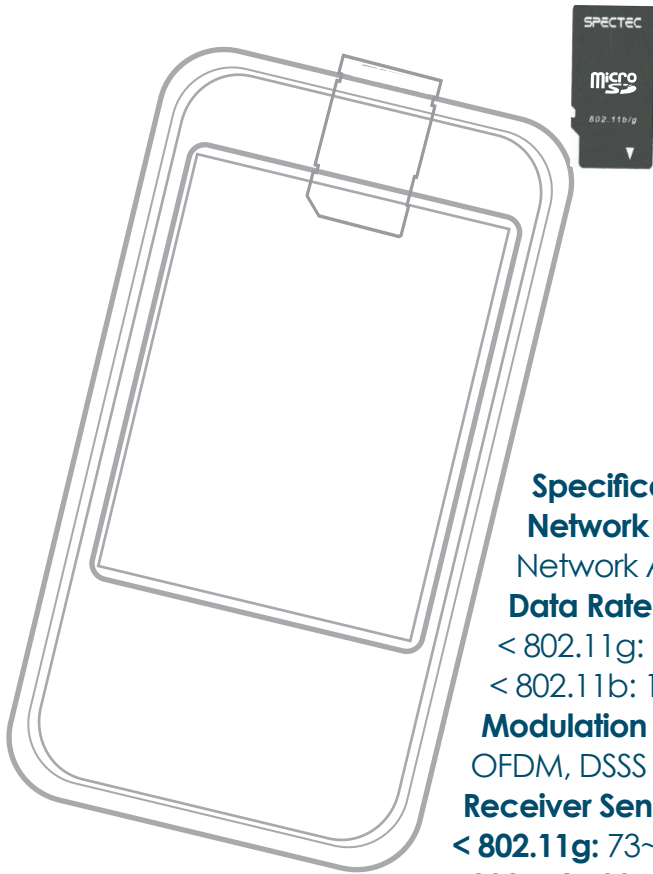
**Operating Range:** Outdoor: 200 ~ 400 m, Indoor: 100 m

**Certification:** FCC, CE, Wi-Fi Certified

**Dimension:** 28 mm x 20 mm x 1.4 mm

**Weight:** Aprox. 1.5 g

\*All specifications are subject to change without prior notice.



**SDW-823 SDIO WLAN-11b/g Card**

**Specifications**

**Network Standard Support:** IEEE 802.11b/g  
Network Architectures: Infrastructure, Ad-Hoc

**Data Rates:**

< 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps  
< 802.11b: 1, 2, 5.5, 11 Mbps

**Modulation Techniques:** BPSK, QPSK, 16QAM, 64QAM, CCK, OFDM, DSSS

**Receiver Sensitivity:**

< **802.11g:** 73~91 dBm  
< **802.11b:** 89~97 dBm

**Power Consumption:** Avg. Operating 138mA

**Supply Voltage:** I/O: 3.0 - 3.6 Vdc

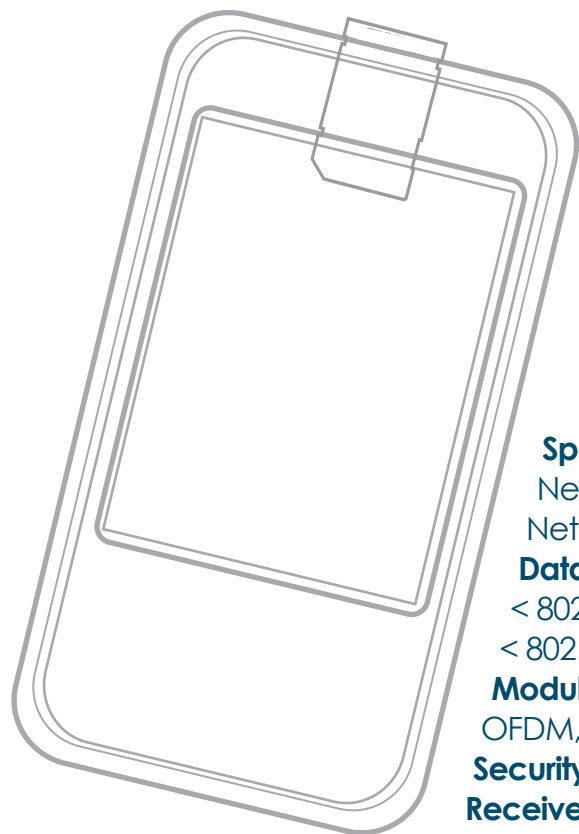
**Operating Temperature:** 0.C to +70.C; <95% humidity

**Host Interface:** SDIO

**OS Support:** Microsoft Windows CE 4.2, 5.0 ,Windows Mobile 2003 or above (for PPC & Smartphone) / Linux V2.4.18 on samsung 2410/2440

**Dimension:** 22 x 11 x 1 mm

\*All specifications are subject to change without prior notice



**SDW-825 SDIO WLAN-11b/g Card**

**Specifications**

Network Standard Support: IEEE 802.11b/g  
 Network Architectures: Infrastructure, Ad-Hoc

**Data Rates:**

< 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps  
 < 802.11b: 1, 2, 5.5, 11 Mbps

**Modulation Techniques:** BPSK, QPSK, 16QAM, 64QAM, CCK, OFDM, DSSS

**Security:** 40~128 bit WEP, TKIP, WPA, AES, WPAII, LEAP, PEAP

**Receiver Sensitivity:**

< 802.11g: 73 ~ 91 dBm  
 < 802.11b: 89 ~ 97 dBm

**Power Consumption:**

< Avg Operating: 138 mA  
 < Sleep Mode: 50 uA

**Operating Voltage:** 3.0 V - 3.6 V

**Operating Temperature:** 0°C to +70°C; <95% humidity

**Host Interface:** SDIO

**OS Support:** Microsoft Windows CE 4.2, 5.0 ,Windows Mobile 2003 or above (for PPC & Smartphone) / Linux V2.4.18 on samsung 2410/2440

**Dimension:** 28x20x1.4mm

**Certification:** FCC, CE, Wi-Fi Compliance

**Weight:** Approx. 1.5g

\*All specifications are subject to change without prior notice



**NOTE:** The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.

### **FCC INFORMATION**

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no grantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undersired operation.



**Thank You for Purchasing Spectec's Products**