

# AmbiCom Wave2Net 54g CompactFlash Card

Model: **WL54-CF**



The WL54-CF gives you the freedom to work your way, from wherever you want. The industry standard IEEE 802.11g featuring advanced silicon chip design and is capable of delivering data transfer rates up to 54Mbps. It is ready to run in Type II Compact Flash-equipped PDAs running Windows CE, the WL54-CF is truly a "must-have" for all PDA users.

802.11g shares the same 2.4GHz frequency band which 802.11b uses. The radio circuitry and the chip is designed to work with existing 11Mbps 802.11b equipment installed earlier. Whichever standard is used, WL54-CF is ready to connect. And it is simple to use. The included Setup Wizard will walk you through configuring the adapter to your network's settings, step by step. Just slide it into the CF slot of your PDA and enjoy network access, while retaining true mobility.

## **Features**

- Compact Flash Type-II form factor.
- IEEE 802.11g compatible.
- Backward compatible with IEEE 802.11b standard.
- Wire-free access to networked resources from anywhere beyond the desktop.
- Delivers data rate up to 54 Mbps.
- 802.11g: Dynamically shifts between 54, 48, 36, 24, 18, 12, 9 and 6 Mbps network speed, based on signal strength, for maximum availability and reliability of connection.
- 802.11b: Dynamically shifts between 11M, 5.5M, 2M, and 1 Mbps network speed, based on signal strength, for maximum availability and reliability of connection.
- Allows users move between Access Points without resetting their connection reconfiguration.
- Built-In PCB antenna with diversity design.
- Support advanced power management and power saving mode.
- Low CPU utilization through scatter gathers bus-mastering DMA architecture.
- Uses 2.4GHz frequency band, which complies with worldwide requirement.
- Fallback rat algorithm that sets the optimum transmission rate based on actual signal-to-noise ratio and packet loss information
- Supports most popular operating systems: Window 98SE/2000/ME/XP and WinCE
- Ensures great security by providing the 64/128 bits Wired Equivalent Privacy (WEP) and WiFi Protected Access (WPA) defined in the IEEE standard.
- 802.11i and WPA2 Support
- 802.11e (WMM) Support

## Specifications

<b>Product Name</b>	WL54-CF
<b>Interface</b>	Compact Flash Type-II
<b>Network Standard</b>	IEEE802.11g/b COMPLIANCE
<b>Data Rate</b>	54Mbps with automatic fallback to 48, 36, 24,18,12,9 and 6 Mbps
<b>Modulation Techniques</b>	802.11g:OFDM with BPSK, QPSK, 16-QAM, and 64-QAM (at 6/9, 12/18, 24/36, and 48/54 Mbps, respectively)  802.11b:DSSS with BPSK, QPSK, and CCK (at 1, 2, and 5.5/11 Mbps, respectively)
<b>Operating Frequency</b>	2.412 ~ 2.462 GHz: North America  2.412 ~ 2.472 GHz: Europe ETSI  2.412 ~ 2.4835 GHz: Japan
<b>Operating Channels</b>	1~11 for N. America  1~13 for Europe (ETSI)  1~14 for Japan
<b>RF Output Power</b>	13 dBm (54Mbps, OFDM, typical)  17 dBm (11Mbps, CCK, QPSK, BPSK, typical)
<b>Antenna</b>	Built-In PCB antenna with diversity
<b>LED Indicators</b>	POWER & LINK
<b>Coverage Area</b>	<b>Indoor</b> 54g mode: 20M@54Mbps, 35M@24Mbps, 60M@6Mbps 11b mode: 100M@11Mbps  <b>Outdoor</b> 54g mode: 40M@54Mbps, 55M@48Mbps, 75M@36Mbps, 100M@24,18, 12/9/6Mbps 11b mode: 60M@11Mbps, 100M@5.5Mbps, 150M@2Mbps, 250M@1Mbps
<b>Receiver Sensitivity</b>	-69 dBm @ 54M (OFDM, 10% PER)  -84 dBm @ 11M (CCK, 8% PER)
<b>Power Consumption</b>	TX power consumption: <500mA  RX power consumption: <300mA
<b>Support OS</b>	Microsoft Windows XP  Microsoft Windows CE 4.0 / 5.0 (Pocket PC 2003 and above)
<b>Operating Temperature</b>	0 to 55 °C
<b>Humidity</b>	20% to 95% Non-condensing
<b>Dimensions</b>	(W) 58.95mm × (D) 42.8mm × (H) 5mm
<b>Weight</b>	30g
<b>Voltage</b>	3.3V
<b>Minimum System Requirements</b>	Computer or PDA with CF Type-II slot

