

WLAN

Compact Flash Card

USI Mobility Device's
Wireless Solution



Introduction

The USI 802.11 Type I Compact flash Wireless network adapter card which refers as "CF-B-AG-01" is a full function 802.11b 11Mbps wireless network adapter, which provides CF+ host interface with type I mechanical design. CF-B-AG-01 provides the wireless network connectivity anywhere, anytime for PDA or handheld devices.

CF-B-AG-01 is a standard product which is approved as one of USI WLAN NIC product lines. That supports user friendly interface software and plug and play features to enable user for management and access to the network.

The small size design, low power consumption and excellent Radio performance make it the best solution for OEM customers who require CF type 802.11b WLAN NIC adapter, such as, access point, wireless router, PDA, mini-Printer, wireless camera, Tablet PC etc.

For the Hardware features, Agere "Beagle" chipset solution is adopted. In addition to the classic radio performance of Agere solution, two ceramic antennas provide diversity switch, which support robust and smooth data connection under multi-path (office) environments. New features such as WOL (Wake on LAN) and 802.11d are supported for new application and requirement.

In addition to WEP, WPA and TKIP are supported to provide your network security. For the software and driver development, USI provides standard drivers base on listed OS and processors for OEM.

Features

- Small size and premium ID design which is suitable for PDA and handled device.
- Low power consumption, extend battery life of Host system
- 2400-2483.5 MHz single SKU for world wide market
- Support 802.11d for universal regulation
- Easy for use on mobile and handheld devices with CF type I interface
- Two ceramic antennas support antenna diversity to extend the range performance and maintain robust wireless link under multi path fading environments.
- Support Wi-Fi and Radio regulatory compliance



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WLAN Compact Flash Card Family Specification



Specification	CF Card	CF Module
Model Name	CF-B-AG-01	CF-B-AG-02
Wireless Network Standard	802.11b	802.11b
Chipset Solution	Agere Hermes-II	Agere Hermes-II
Specification	<ul style="list-style-type: none"> IEEE 802.11b/g (2.4-GHz) 11b- 11, 5.5, 2, 1 Mbps 11b- DSSS, CCK 	<ul style="list-style-type: none"> Yes Yes Yes
Security	<ul style="list-style-type: none"> WEP64/128-bit WPA (SSN) Support Availability 	<ul style="list-style-type: none"> WEP 64.128 bit WPA/TKIP SSN
Receive Sensitivity(dBm)	<ul style="list-style-type: none"> -83 @ 11 Mbps -86 @ 5.5 Mbps -89 @ 2 Mbps -92 @ 1 Mbps 	<ul style="list-style-type: none"> -83 @ 11 Mbps -86 @ 5.5 Mbps -89 @ 2 Mbps -92 @ 1 Mbps
RF Output Power (dBm)	15 (Typical)	15 (Typical)
Power Consumption (mA)	<ul style="list-style-type: none"> TX : 265 RX : 165 Sleep : 2- 15 mA 	<ul style="list-style-type: none"> TX : 265 RX : 165 Sleep : 2- 15 mA
Physical and Environmental Specifications	<ul style="list-style-type: none"> Host System Interface Operating Voltage Dimensions (mm) Operating Temperature 	<ul style="list-style-type: none"> CompactFlash Type-I 5/3.3 Volt 56.56x42.8x5.57 0-70° Celsius
Features	<ul style="list-style-type: none"> 802.11d Support Wake-On-Lan (WOL) Power Saving Mode 	<ul style="list-style-type: none"> Yes Yes Yes
Operating System Support	<ul style="list-style-type: none"> Microsoft Windows Linux , Vx Works 	<ul style="list-style-type: none"> Win98/ME/2000/XP WinCE 3.0/ NET Pocket PC 2002 ,2003
Regulatory Approval	<ul style="list-style-type: none"> Certification 	FCC , Telec, ...Cetificated
Application		PDA, Tablet PC, Mobile Device, Notebook, AccessPoint, Router, Printer .. Etc.
Availability Status	Available Now	Available Now
LED Indicator Classic Blue	Power / link activity	N/A
Antenna	2, Ceramic with Diversity Supported	
RF Connector	2 (U.FL) RF Connector	

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