



## **USB Wireless Card**

### **Ambit Model Name : 60519W**

AMBIT Wireless High Rate USB station complied with IEEE 802.11b 11Mbps Standard, it can be used to provide a variety of low-cost wireless network interface card to connect your wireless LAN via fitting into the USB 1.1 connector. The Wireless High Rate USB station that complies with this specification and combines networking with high-speed Internet access will let people connect to the Internet anywhere, anytime.

With seamless roaming, fully interoperability and advanced security with WEP standard, Wireless High Rate USB station can allow user to switch to different vendors' Access Points through the wireless networks and to prevent from eavesdropping.

## **Function**

- Compatible with IEEE 802.11b high rate standard to provide wireless Ethernet speeds of 11Mbps data rate
- Dynamic data rate switching with 11, 5.5, 2 and 1Mbps
- Allows auto fallback data rate for optimized reliability, throughput and transmission range
- Supports wireless data encryption with 64/128-bit WEP standard for security

- Integrated Microstrip dual diversity antennas for the multipath environment
- USB station fully support USB 1.1 defined mechanical and environmental stress conditions
- Drivers supports Windows 95, 98, 98SE, ME, 2000, NT
- WIFI Certified



## Specification

Dynamic rate shifting (Auto-selects highest usable rate)	1, 2, 5.5, 11Mbit
Network standard(s)	IEEE 802.11b High rate
Frequency	2.4 ISM band
Wireless Medium	Direct sequence spread spectrum
Encryption	Encryption option; 64bit encryption option; 128bit encryption option
Modulation	DBPSK @ 1Mbps; DQPSK @ 2Mbps; CCK @ 5.5Mbps and 11Mbps
Operating channel	11 channels (U.S. and Canada); 13 channels (Europe); 14 channels (Japan)
Roaming	IAPP
Certification	FCC Part 15 class B US Unintentional Emissions; FCC Part 15.247, 15.205, 15.209 US Spread Spectrum; DOC RSS-2 Canadian spread spectrum; Europe ETS 300 328, ETS 300 826, CE marked; Japan RCR STD-33; Contact US for other information outside the U.S.
Environmental operating ranges	Operating temperature: 0 to 55 °C; Storage –20 to 70 °C; Operating Humidity: 90% maximum non-condensing;
Notebook slot Type	USB 1.1 interface
Device Drivers	NDIS 4
Software Driver	Windows 95, 98, 98SE, ME, 2000, NT
Software Utility	Location profiles “Current station status”; “Link Test”; Real-time Link Quality & Signal Strength”; “Configuration NIC” .
Network Architecture Types	Supports peer to peer and communication to wired networks via Access Point



## Operating Range

### Indoor

up to 50M(165ft.) @ up to 11Mbps  
up to 70M(230ft.) @ up to 5.5Mbps  
up to 90M(296ft.) @ up to 2Mbps  
up to 100M(328ft.) @ up to 1Mbps

### Outdoor

up to 152M(500ft.) @ up to 11Mbps  
up to 270M(885ft.) @ up to 5.5Mbps  
up to 396M(1300ft.) @ up to 2Mbps  
up to 457M(1500ft.) @ up to 1Mbps

## Antenna

Integrated internal diversity antenna.

## LED Indicators

Link Activity

## Receive Sensitivity

-90dbm @ 1Mbps; -88dbm @ 2Mbps; -86dbm @ 5.5bps; -84dbm @ 11bps

## Output power

Typical 13dbm.

## Power

5V DC; Transmit 380mA typical (500mA max); Receive 215mA typical (300mA max);  
Sleep 90mA typical (100mA max).

## Safety compliance

USA/Canada: UL1950/CSA 22.2; Europe: CE marked

## Dimensions

Length 11.02cm/4.34inch; Width 5.66cm/2.23inch; Thickness 5mm/0.20inch;  
Weigh 1.6oz/45.35g

### Federal Communication Commission Interference Statement

This 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does 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 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 undesired operation.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF Exposure Warning: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device is provided with an internal antenna and minimum 20 cm spacing must be maintained between this PC C Card and all person's body (excluding extremities of hands, wrist and feet) during wireless mode of operation. Further, this transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.