PCIe x1 to Dual-Band Wireless Card (RTL Chipset) (ER3021W)

Introduction

This PCIe RTL8188CE 150Mbps wireless card is a highly integrated single-chip 802.11n wireless LAN (WLAN) PCI Express network interface controller. It combines a WLAN MAC, a 1T1R capable WLAN baseband, and RF in a single chip, it provides a complete solution for a high- performance integrated wireless devices.

Product Highlights:

- Compliant with PCI Express host interface specification v2.0
- Connector interface: x1
- Compatible with 802.11n specification
- Backward compatible with 802.11b/g devices while operating in 802.11n mode
- 802.11b/g/n compatible WLAN
- 802.11e QoS Enhancement(WMM)
- 802.11i(WPA,WPA2),Open, shared key, and pair-wise key authentication services
- 20MHz and 40Mhz bandwidth transmission
- Short Guard interval(400ns)
- OFDM with BPSK,QPSK,16QAM,and 64QAM modulation
- Maximum data rate 54Mbps in 802.11g; and 150Mbps in 802.11n
- Switch diversity for DSSS/CCK
- Fast receiver automatic Gain Control(AGC)
- Supports all packet types in basic rate and enhanced data rate
- Integrated internal Class1,Class 2,and Class 3PA
- Supports power control/Enhanced Power Control

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Technical Specifications:

Brand	EiRA
SKU Code	ER3021W
Product model	PCIe x1 to Dual-Band Wireless Card (RTL Chipset)
Chipset	RTL8188CE
Form Factor	Plug-in Card with Small Form Factor Support
Small/Low Profile Bracket	Provided
PCIe Specification Revision	PCIe v2.0
Input Bus Interface	PCI Express x1 - Compatible with x1/x4/x8/x16 slots
Standards	802.11b/g/n, 802.3, 802.3u
Frequency Band	Wi-Fi: 2.4GHZ ISM Band
Antenna	2 x 5dBi
Data Transfer Rate	1,2,5.5,6,11,12,18,22,24,30,36,48,54,60,90,120 and max of 150Mbps
Modulation type	BPSK/ QPSK/ 16-QAM/ 64-QAM
Spread Spectrum	IEEE 802.11b: DSSS (Direct Sequence Spread Spectrum) IEEE 802.11g/n: OFDM (Orthogonal Frequency Division Multiplexing)
RF Output Mode	One IPEX
RF Output Power	<14dBm@11n, <18dBm@11b, <15dBm@11g
Operation Mode	Ad hoc, Infrastructure
Receiver Sensitivity	11Mbps~83dBm @8%, 54Mbps~73dBm@10%, 130Mbps~64dBm@10%
Operation Range	up to 180m in open space
LED	Power
System supported	Windows 7/8/8.1/10/11
Security	WEP, TKIP, AES, WPA, WPA2
Interface	MiniCard PCIe
Operating Temperature	0~50℃ ambient temperature
Storage Temperature	40 to 70℃ ambient temperature
Dimensions	30 x 26.8 x 3 mm
Weight	5 gm
Accessories	1 x CD-driver, 1 x Low profile bracket, 2 x 5dBi Gain antenna, 1 x 9Pin to 4Pin USB Cable
Warranty*	1 year

Hardware Installation

1. Turn off the computer and unplug the power cord.
2. Remove the computer cover and the adapter slot cover from the slot that matches your adapter.
3. Insert the adapter edge connector into the slot and secure the bracket to the chassis.
4. Install the Gain Antenna onto the adapter card and tighten it.
5. Replace the computer cover, then plug in the power cord.
6. Power on the computer.