WPER-116GN

Feature

- Chipset: Ralink RT3090
- Interface: Mini PCI Express
- Wireless connection up to 150Mbps
- RF 1T1R
- Low power consumption and high performance
- Enhanced wireless security: 64/128-bit WEP, WPA, WPA2, 802.1x, CCX5 compliant
- Windows CE/ XP/ Vista/ Win 7, Linux, Android by request

Application

- Industrial PC
- Networking Equipment
- Automation
- Medical Device
- POS (Point-of-Sale) System
- Gaming Machine



802.11b/g/n Half Mini Card

Highest Performance with Ralink RT3090 Solution, 1T1R

Superior Performance with Longer Range and Faster Speed

SparkLAN Wireless Mini PCI Express Module, WPER-116GN, fully supports the features and functional compliance with IEEE 802.11 b/g/n standard, supporting up to 150Mbps data rates. Comparing to 802.11n technology, it makes big improvement on speed and range.

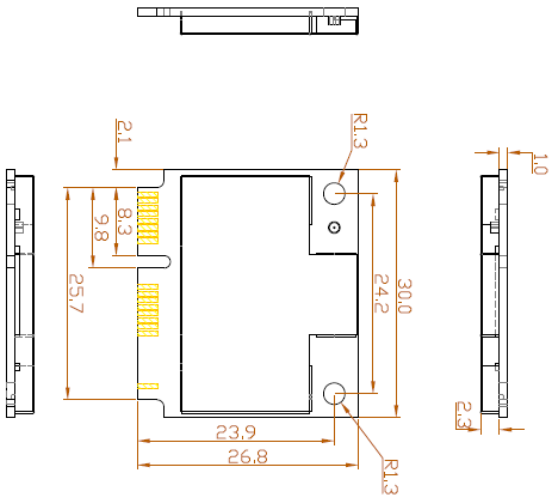
Best Choice for High-End Notebook

The module based on Ralink RT3090 solution, which is single-band 2.4GHz 1T1R PCIe design, targeting enterprise and high-end consumer notebooks. The solution enables up to 3 times the throughput and more than twice the range of 802.11g solutions.

Industry-Leading Power Efficiency

WPER-116GN features Ralink' highest level of 802.11n WLAN throughput, which enables a high performance, cost effective, low power, compact solution that easily fits onto single side of the PCI Express Module.

Mechanical Dimension



WPER-116GN

Related Product

- WPEA-166G
  802.11g Express Module



Ordering Info

- WPER-116GN
  802.11b/g/n Half Mini Card

Specifications

Standard

802.11b/g/n

Chipset

Mac/BB /RF	Ralink RT3090

Host Interface

Mini PCI Express

Radio

Antenna	1 x U.FL connector, 1T1R
Operating Frequency	b/g/n ISM Band:2.4 ~2.484GHz
Modulation	802.11b: DSSS (PSK, CCK, DBPSK, DQPSK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Output Power	802.11b: 17dBm ± 2dBm@11Mbps 802.11g: 14dBm ± 2dBm@54Mbps 802.11n HT20: 14dBm ± 2dBm@MCS7 802.11n HT40: 14dBm ± 2dBm@MCS7
Receive Sensitivity	802.11b: -85dBm ± 2dBm@11Mbps 802.11g: -65dBm ± 2dBm@54Mbps 802.11n HT20: -65dBm ± 2dBm@MCS7 802.11n HT40: -60dBm ± 2dBm@MCS7

Power consumption

Continue TX	Max 1500mW
Continue RX	Max 1000mW

Operating Voltage

DC 3.3V ± 10% ; DC 1.5V ± 10%

Environmental

Temperature Range	0 ~ 55°C (Operating) -20~85°C (Storing)
Operating Humidity	50 ~92% (Non-Condensing)

Physical Specification

Dimensions	26.6mm x 30mm x 3.5mm (±0.15mm)
Weight	≤ 7g

Software

Driver	Windows CE/ XP/ Vista/ Win 7, Linux, Android by request
Security	64/128-bit WEP, WPA, WPA2, 802.1x, CCX5 compliant