



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
- Windows 2000/ XP/ Vista/ Linux driver support

Application

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



Wireless-GN Mini PCI Express Module

Highest Performance with Ralink RT3090 SoC 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.

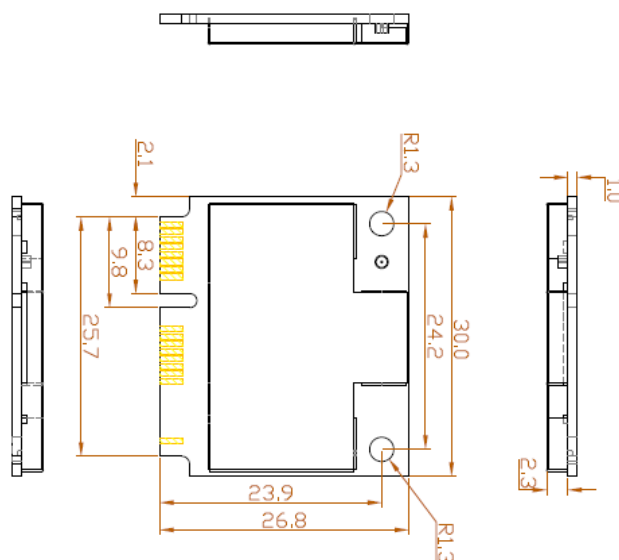
Best Choice for High-End Notebook

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-116G
802.11g Express Module

Specifications

Standard

802.11b/g/n

Chipset

Mac/BB /RF Ralink RT3090

Host Interface

Half Mini PCI Express Card

Radio

Antenna 1 x U.FL connector, 1T1R

Operating Frequency b/g/n ISM Band:2.412~2.472GHz

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 : 18dBm $\pm$ 1.5dBm
802.11g : 15dBm $\pm$ 1.5dBm
802.11n HT20 : 14dBm $\pm$ 1.5dBm
802.11n HT40 : 14dBm $\pm$ 1.5dBm

Receive Sensitivity
802.11b : -85dBm $\pm$ 2dBm@11Mbps
802.11g : -65dBm $\pm$ 2dBm@54Mbps
802.11n HT20 : -65dBm $\pm$ 2dBm@150Mbps
802.11g HT40 : -60dBm $\pm$ 2dBm@300Mbps

Power consumption

Continue TX Max 1500mW

Continue RX Max 1000mW

Operating Voltage

DC 3.3V $\pm$ 10% ; DC 1.5V $\pm$ 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 ($\pm$ 0.15mm)

Weight $\leq$ 7g

Software

Driver Windows 2000/ XP/ Vista/ Linux

Security 64/128-bit WEP, WPA, WPA2, 802.1x