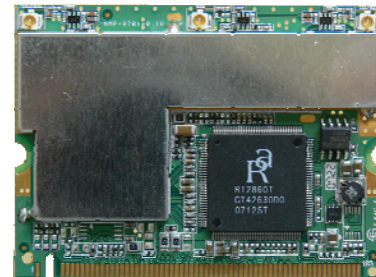




Ralink 11n Mini-PCI Adapter (2T3R)		NMP-9701
2.4 GHz	802.11b/g/n	300 Mbps

NMP-9701 is a 2.4GHz MIMO mini-PCI type III A module. It provides the high-speed wireless connection with data rate up to 300Mbps (two streams) and connects to farther distance. It provides 2 alternatives for MIMO solution, and 2T3R radios support. It can easily integrate into a wide range of AP/Bridge device. This new MIMO Wireless miniPCI offers dramatic performance improvements with 2 bandwidth technology (20/40MHz) and backward compatible over standard 802.11b and 802.11g wireless devices.



It consists of two highly integrated ICs (RT2860+RT2820) that fully comply with IEEE802.11n 2.0 and IEEE 802.11b/g standards and operates in 2.4GHz. Its high transmission data rates and reliable performance are ideal for streaming multimedia applications. The card also features WEP, WPA-AES hardware-based and TKIP security capabilities. This allows you to protect data over wireless communications, and still without sacrifice the performance when encrypting and decrypting the data.

* Theoretical wireless signal rate based on IEEE standard of 802.11b/g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice.

Features	Benefits
11b/g MIMO mini-PCI type III A module	Fully interoperable with IEEE802.11b/g compliant products.
High Speed Data Rate up to 300Mbps	Capable of handling heavy data payloads such as MPEG video streaming
64/128 bit WEP WPA-WiFi Protected Access (PSK) / WPA2	Enhances authentication and security.
802.11e Standard draft Support	Wireless Multimedia Enhancements Quality of Service support (QoS)
Low power requirements	With advanced power management especially in power limited environment
SW/operating system support	Windows XP, 2K, Vista, Linux and MAC
Support 2T3R Radios	Support 2T3R architecture with fully forward compatible with 11n standard

Technical Specifications

Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54, 72, 84, 150 and 300Mbps (300 Rx PHY rate; 150Mbps Tx PHY support)

Standards / Compliance

IEEE802.3, IEEE802.3u, IEEE802.11b, IEEE802.11g, 802.11n (2.0)

Regulation Certifications

FCC Part 15, ETSI 300/328/CE

Operating Voltage

3.3V±0.15V

Current consumption

Tx : 695mA @ 2T (max.)

Rx : 407mA @ MCS 15, 40MHz

RF Information

Frequency Band

802.11b/g:

U.S., Europe and Japan product covering 2.4 to 2.484 GHz

Modulation Technology

802.11g:

OFDM (64-QAM, 16-QAM, QPSK, BPSK)

802.11b:

DSSS (DBPSK, DQPSK, CCK)

Operating Channels

802.11b/g

11 for North America, 14 for Japan, 13 for Europe

Receive Sensitivity (Typical)

- 2.412~2.472G(IEEE802.11b) (1Rx)
-93dBm @ 1Mbps
-91dBm @ 11Mbps
- 2.412~2.472G(IEEE802.11g) (2Rx)
-92dBm @ 6Mbps
-79dBm @ 54Mbps
- 2.412~2.472G(IEEE802.11N) (2Rx)
-90 dBm MCS 8
-70 dBm MCS 15

Available transmit power (Typical)

- 2.412~2.472G(IEEE802.11b)
19dBm @ 1~11Mbps
- 2.412~2.472G(IEEE802.11g)
19 dBm @6Mbps
16 dBm @54Mbps
- 2.412~2.472G(IEEE802.11N)
20 dBm MCS 8
16 dBm MCS 15

Antenna

Two antenna connectors (IPEX)

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Form Factor

Mini-PCI type III A

Dimensions (LxWxH)

59.60mm X 50.9mm

Weight

15g (0.53 oz)

Environmental**Temperature Range**

Operating: -20°C to 70°C

Storage: -30°C to 80°C

Humidity (non-condensing)

5% ~ 95% typical

Related Product(s)

11N Wireless USB Adapter/MiniPCI
EUB-9701 EXT2 (802.11n 2.0 Palm type)
EUB-9701 (802.11n 2.0 USB 2T2R)
ESR-9710 (802.11n 2.0 Router)
NMP-9601 (802.11n 2.0 Atheros solution)

High-power Wireless USB Adapter

NMP-8602/8601 PLUS (11a/g high power
miniPCI, up to 26dBm in 2.4GHz)
NMP-3602/3601 (11b/g high power miniPCI, up
to 23dBm in 2.4GHz)

High power Outdoor AP-Client

EOC-3220 Series (802.11b/g)
EOC-8610 Series (802.11a/b/g)

High power Indoor AP-Client

ECB-3220 Series / ECB-8610 Series

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