

PRODUCT DATASHEET

Conexant Mini-PCI Adapter

NL-2511MP PLUS

2.4 GHz

802.11b

11 Mbps

This IEEE 802.11b wireless mini-PCI adapter is a standard Type III A mini-PCI card that can be integrated for embedded systems or OEM projects. This mini-PCI adapter is IEEE 802.11b compliant and the data rate is up to 11Mbps. Advanced power management and indoor multi-path distortion are also supported along with 64/128-bit WEP encryption. The small form factor and light weight make it an ideal solution for embedded systems or OEM projects.



Features	Benefits
Flexible Design for Embedded Systems	Can be designed for OEM projects or embedded systems
IEEE 802.11b Compliant	Fully interoperable with IEEE 802.11b compliant devices
Automatic Data Rate Scaling at 11, 5.5, 2, and 1 Mbps	Optimized throughput, range, and connectivity
64/128-bit WEP Encryption	Powerful data security
Wide Coverage Range up to 400 Meters in Open Space	Wireless connectivity for all your computers
Advanced Power Management	Extended battery life
Significantly Improved Indoor Multi-path Distortion	Higher link quality in indoor environment

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

** All specifications are subject to change without notice.

5/18/2005

Technical Specifications

Data Rates

11, 5.5, 2 and 1 Mbps, Auto Fall-Back

Standards / Compliance

IEEE 802.11b

Fully interoperable with IEEE802.11b compliant devices

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

Operating Voltage

3.3V

Drivers

Windows 98SE/ ME/2000/XP

RF Information

Frequency Band

U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

Modulation Technology

Direct Sequence Spread Spectrum (DSSS)
CCK (11, 5.5Mbps)
DQPSK (2Mbps)
DBPSK (1Mbps)

Operating Channels

11 for North America, 14 for Japan, 13 for Europe,
2 for Spain, 4 for France

Power Consumption

Transmit <= 280mA
Receive <= 180mA
Sleep <= 130mA

Receive Sensitivity (Typical)

11 Mbps <-86dbm
5.5 Mbps <-88dbm
2 Mbps <- 90dbm
1 Mbps <-92dbm

Available transmit power

20 ± 1dBm

Antenna

2 ultra miniature SMT U.FL type connectors compatible with Hirose U.FL-R-SMT

Networking

Topology

Ad-Hoc, Infrastructure

Security

64/128-bit WEP encryption

Physical

Form Factor

Mini-PCI type III A

Dimensions (LxWxH)

59.8mm x 51.1mm x 5.8mm (2.3in x 2in x 0.2in)

Weight

15g (0.53 oz)

Environmental

Temperature Range

Operating: -0°C to 50°C
Storage: -20°C to 80°C

Humidity (non-condensing)

5% ~ 95% typical

Related Product(s)

11a/b/g Wireless Mini-PCI Adapter
NMP-8602 (802.11a/b/g) (26dBm)
NMP-8601 (802.11a/b/g) (23dBm)
NMP-860 (802.11a/b/g)
NMP-560 (802.11a)
NMP-360 (802.11b/g)
NMP-352 (802.11b/g)

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