

# Long Range

## Wireless PC Card with Two Antenna Jacks

### for Embedded System



Model no. NL-2511CD PLUS EXT2

Feature	Benefit
Up 23 dBm transmit output power (Depends on different countries)	Long operating range, up to three times range of standard products
Compliant	IEEE802.11b compliant
Automatic data rate scaling at 11, 5.5, 2 and 1 Mbps	Optimized throughput, range and connectivity
Improved 64/128-bit WEP Engine	Significantly improved throughput
Wide coverage range up to 1200 meters in open space	Wireless connectivity for all your computers
Advanced Power Management	Extended battery life
Plug and Play	Easy installation
Significantly improved indoor multi-path distortion	Higher link quality in indoor environment

General	
Radio Data Rate	11, 5.5, 2 and 1 Mbps, Auto Fall-Back
Range (open environment)	11 Mbps –300m/450m ( 23 dBm output power) 5.5 Mbps –400m/600m ( 23 dBm output power) 2 Mbps – 500m/750m ( 23 dBm output power) 1 Mbps –800m/1200m ( 23 dBm output power)
Operating Voltage	3.3V/5V
Regulation Certifications	FCC Part 15/UL, ETSI 300/328/CE
Compatibility	Fully interoperable with IEEE802.11b compliant products
LED Indicator	RF Link activity

Network	
Network Architecture	Support ad-hoc, peer-to-peer networks and infrastructure communications to wired Ethernet networks via Access Point
Drivers	Windows 98SE/ME/2000/XP
Access Protocol	CSMA/CA
Roaming	IEEE802.11b compliant
Security	64/128-bit WEP data encryption

Radio	
Frequency Band	2.4 – 2.484 GHz
Radio Type	Direct Sequence Spread Spectrum (DSSS)
Modulation	CCK (11, 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps)
Operation Channels	11 for North America, 14 for Japan, 13 for Europe, 2 for Spain, 4 for France
RF Output Power	23dBm(200mW)—FCC ;20dBm(100mW)—CE
Antenna	Two antenna connectors (MMCX)
Sensitivity @FER=0.08	89dbm @11 Mbps 91dbm @5.5 Mbps 93dbm @2 Mbps 95dbm @1 Mbps

Environment	
Temperature Range	-10°C to 60°C - Operating -40°C to 70°C - Storage
Humidity (non-condensing)	5% to 95% typical

Physical	
Form Factor	PCMCIA Type II PC Card
Dimensions	118(L) mm x 54(W) mm x 7.5(H) mm
Weight	40 g

Updated: 05/21/2004

\*All specifications are subject to change without notice.