

11b/g (2.4GHz)

High Speed Wireless PCI Adapter



Model no. NL-3054PCI Aries2

Up to 108Mbps

Feature	Benefit
Up to 108Mbps high speed data rates.	Capable of handling heavy data payloads such as MPEG video streaming
Up to 152-bit WEP Data Encryption	Powerful data security.
IEEE802.1x & WPA Client Support	Enhances authentication and security.
Multi-country Roaming (802.11d) Support	Automatically adjusts regulatory domain to operate in different countries.
TPC (Transmission Power Control) Support	TPC offers flexibility to adjust RF output power.

General

Data Rates	802.11g : 6, 9, 12, 18, 24, 36, 48, 54, 72, 96 & 108 (Super G)Mbps. 802.11b : 1, 2, 5.5, 11Mbps.
Network Standards	WECA (Wi-Fi & Wi-Fi5 compliance), IEEE 802.11b, 802.11g, draft IEEE 802.11e, f, h, and i standards, IEEE802.11x
Approvals	FCC Part 15 Class B, ETSI 300.328, ETSI 300 826, CE mark
Drivers	Windows 98/ME/2000/XP
Current consumption	Continue Tx: < 850mA Continue Rx: < 550mA
Operational voltage	3.3 V
Security	IEEE802.1x Support for LEAP/PEAP WPA -- Wi-Fi Protected Access (64,128,152-WEP with Shared Key Authentication)

RF Information

Frequency Band	2.412~2.462GHz (US) 2.412~2.484GHz (Japan) 2.412~2.472GHz (Europe ETSI) 2.457~2.462GHz (Spain) 2.457~2.472GHz (France)
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Media Access Protocol	Carrier sense multiple access with collision avoidance (CSMA/CA)
Modulation Technology	802.11g : OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11b : DSSS (DBPSK, DQPSK, CCK)
Operating Channels	11 for US, Canada(Ch1~Ch11), 14 for Japan(Ch1~Ch14), 13 for Europe(Ch1~Ch13), 2 for Spain (Ch10~Ch11), 4 for France (Ch10~Ch13)
Receive Sensitivity	-93dBm @ 1Mbps -89dBm @ 9Mbps -80dBm @ 36Mbps -92dBm @ 2Mbps -88dBm @ 12Mbps -74dBm @ 48Mbps -91dBm @ 5.5Mbps -87dBm @ 18Mbps -71dBm @ 54Mbps -90dBm @ 6Mbps -83dBm @ 24Mbps Super G: -79dBm @ 96Mbps -73dBm @ 96Mbps -69dBm @ 108Mbps
Transmit Output Power (Typical)	802.11g : 20dBm \pm 2dBm @ 6~24Mbps 19dBm \pm 2dBm @ 36~72 Mbps 17dBm \pm 2dBm @ 48~96 Mbps 15dBm \pm 2dBm @ 54~108 Mbps 802.11b : 20dBm \pm 2dBm for all rates
Physical	
Interface	PCI interface card
Antenna	SMA detachable Antenna (standard - 2dBi, optional – high gain 5dBi)
Dimensions	104mm (L) X 98mm (W)
Environmental	
Temperature Range	0°C to 55°C (32°F to 131°F) - Operating -40°C to 70°C (-40°F to 158°F) - Storage
Humidity (non-condensing)	5%~95% Typical

Update by 2004/05/28

All specifications are subject to change without notice.